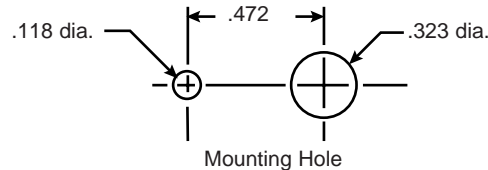
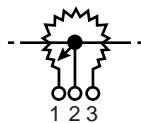
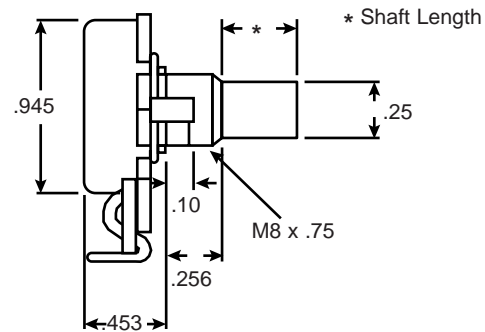


Dimensions (In.)



Electrical Specifications:

- Resistance tolerance: $\pm 20\%$
- Maximum working voltage: 500V (linear taper)
250V (audio taper)
- Overload voltage: 1000VAC for 60 seconds
- Power Dissipation: .5 watts (linear taper)
.25 watts (audio taper)
- Insulation resistance: $> 100M\Omega$ @ 500VDC
- Minimum resistance: if total R $< 2K$ then $\leq 20\Omega$
if total R $> 2K$ then $\leq 100\Omega$
if total R $> 1m$ then $\leq 200\Omega$
- Rotational noise: with 20VDC between terminals 1 & 3, noise should be less than 47mW, with shaft rotation of 30 cycles per minute
- Rotation endurance: after 1500 rotations of 600 cycles per hour changes may be as follow: total resistance: $\pm 15\%$ of initial value, rotational noise: $< 150mV$
- Resistive element: carbon composition
- Electrical rotation angle: $285^\circ \pm 5^\circ$

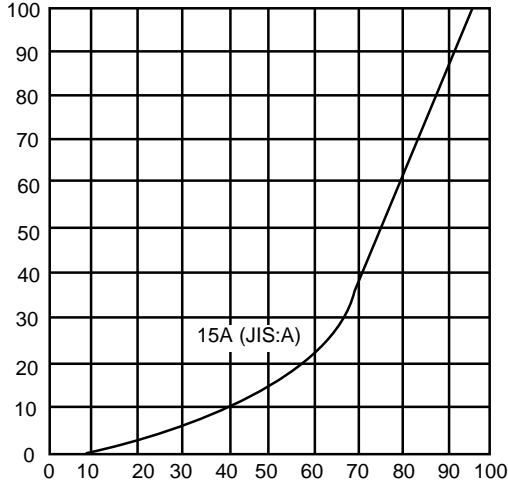
Mechanical Specifications:

- Rotation angle: $300^\circ \pm 5^\circ$
- Rotation torque: 20~200 gf.cm
- Shaft stop strength: $> 6Kgf.cm/min$

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Audio Taper

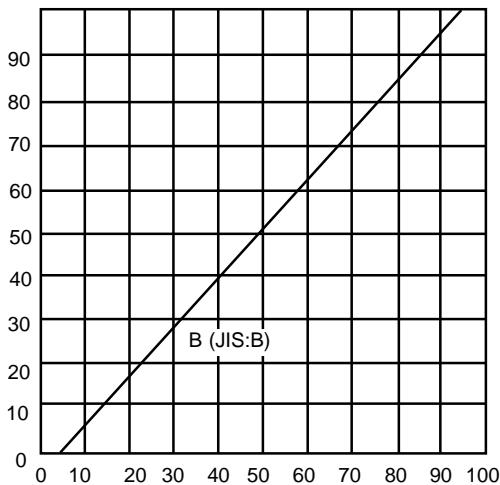


Term. "1" Rotation Travel (%) → Term. "3"

Audio Taper
3/8" Shaft Length *

Mouser Stock No.	Value (Ω)
31VJ301	1K
31VJ305	5K
31VJ401	10K
31VJ405	50K
31VJ501	100K
31VJ505	500K
31VJ601	1M

Linear Taper



Term. "1" Rotation Travel (%) → Term. "3"

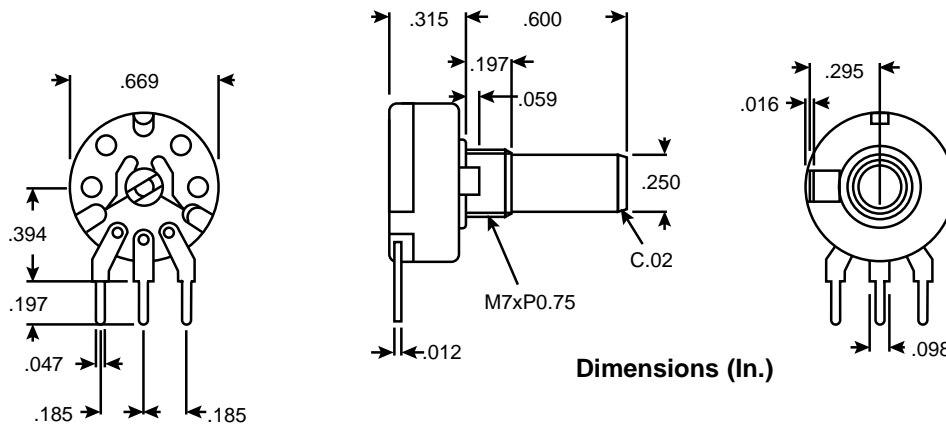
Linear Taper
3/8" Shaft Length *

Mouser Stock No.	Value (Ω)
31VA205	500
31VA301	1K
31VA302	2K
31VA303	2.5K
31VA305	5K
31VA401	10K
31VA403	25K
31VA405	50K
31VA501	100K
31VA503	250K
31VA505	500K
31VA601	1M
31VA602	2M
31VA605	5M

Linear Taper
1 1/4" Shaft Length *

Mouser Stock No.	Value (Ω)
31VC205	500
31VC301	1K
31VC302	2K
31VC303	2.5K
31VC305	5K
31VC401	10K
31VC403	25K
31VC405	50K
31VC501	100K
31VC503	250K
31VC505	500K
31VC601	1M
31VC605	5M

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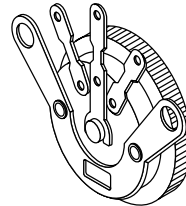
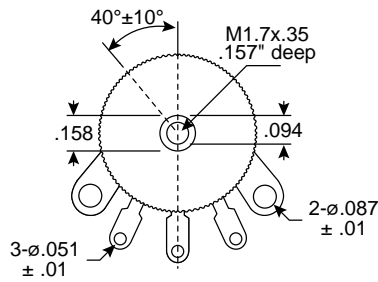


Specifications:

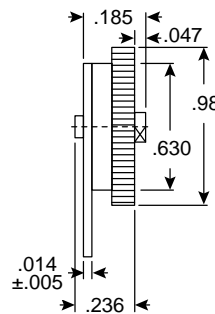
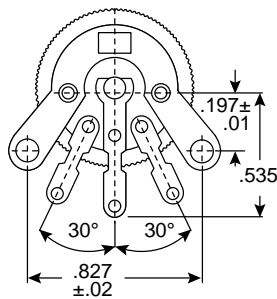
- Resistance element: Carbon composition
- Resistance tolerance: $\pm 20\%$
- Wattage rating: 1/4 watt
- Rotation angle: $260^\circ \pm 5^\circ$
- Rotational torque: 20-200 g-cm
- Anti-rotational torque: 3 Kg-cm
- Operational temperature: -10°C to $+70^\circ\text{C}$
- Insulational Resistance: 50M min @ 500VDC
- Withstanding voltage: 500V @ 60 seconds
- Rotational noise: 57mV
- Rotational life: 5,000 cycles

Mouser Stock No.	Value (Ω)
31CW205	500
31CW301	1K
31CW305	5K
31CW401	10K
31CW405	50K
31CW501	100K
31CW505	500K
31CW601	1 Meg

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Dimensions (In.)



Specifications:

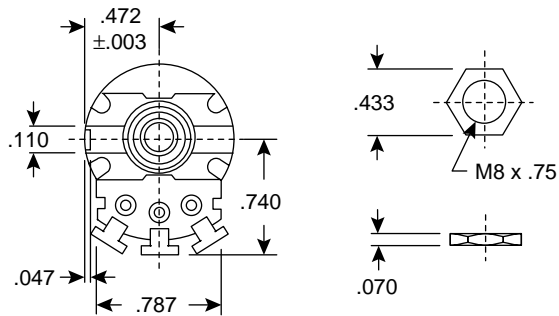
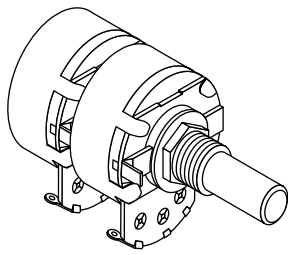
- Type: 16mm miniature w/ thumbwheel knob
- Rotation angle: $260^\circ \pm 10^\circ$
- Rotation torque: 20 ~ 200 gf-cm
- Stop strength: 2kgf cm/min
- Resistance tolerance: $\pm 20\%$
- Insulation resistance: $50M\Omega @ 500VDC$
- Breakdown voltage: 500V for 60 seconds
- Wattage: 0.1 watt-linear taper
- Voltage rating: 200V

Mouser Stock No.	Value
31TS205	500
31TS301	1K
31TS302	2K
31TS305	5K
31TS401	10K
31TS405	50K
31TS501	100K
31TS505	500K
31TS601	1M

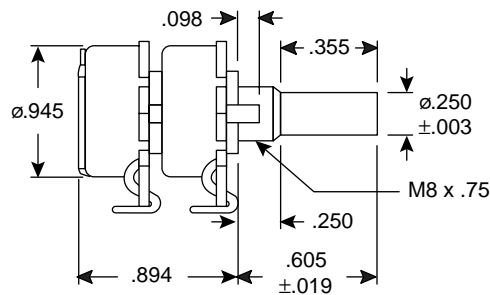
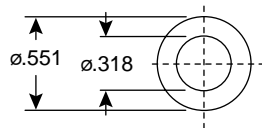
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Dimensions (In.)
(except where noted)



Specifications:

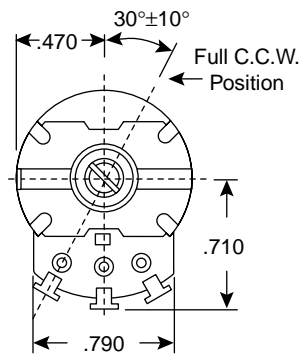
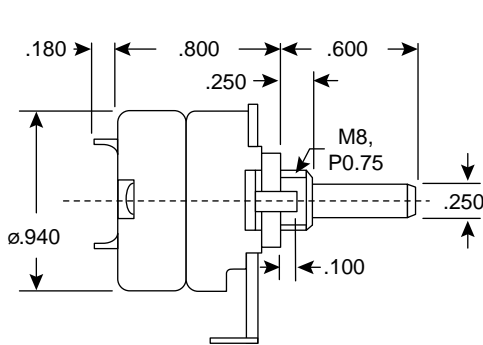
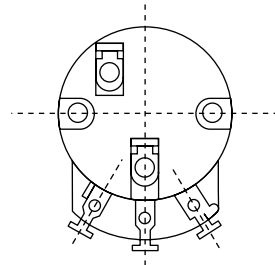
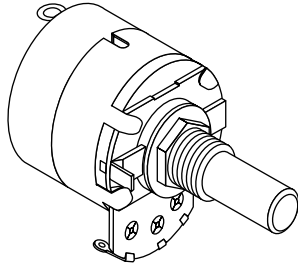
- Type: dual ganged
- Resistance tolerance: $\pm 20\%$
- Working voltage: 350V max.
- Overload voltage: 1000VAC for 1 minute
- Power dissipation: 0.5W (31VW Series) .25W (313-2420-Value)
- Insulation resistance: $>100M\Omega$ @ 500VDC
- Rotational noise: with 20VDC between terminals 1 and 3, noise should be $< 47mV$ with shaft rotation of 30 cycles per minute
- Rotation angle: $300^\circ \pm 5^\circ$
- Rotational torque: 50-450 gcm
- Anti-rotational torque: 9Kgcm
- Tracking tolerance: $0\sim 40\pm 3dB$

Audio Taper

Mouser Stock No.	Value (Ω)
313-2420-1K	1K
313-2420-5K	5K
313-2420-10K	10K
313-2420-50K	50K
313-2420-100K	100K
313-2420-250K	250K
313-2420-500K	500K
313-2420-1M	1M

Linear Taper

Mouser Stock No.	Value (Ω)
31VW301	1K
31VW305	5K
31VW401	10K
31VW405	50K
31VW501	100K
31VW503	250K
31VW505	500K
31VW601	1M

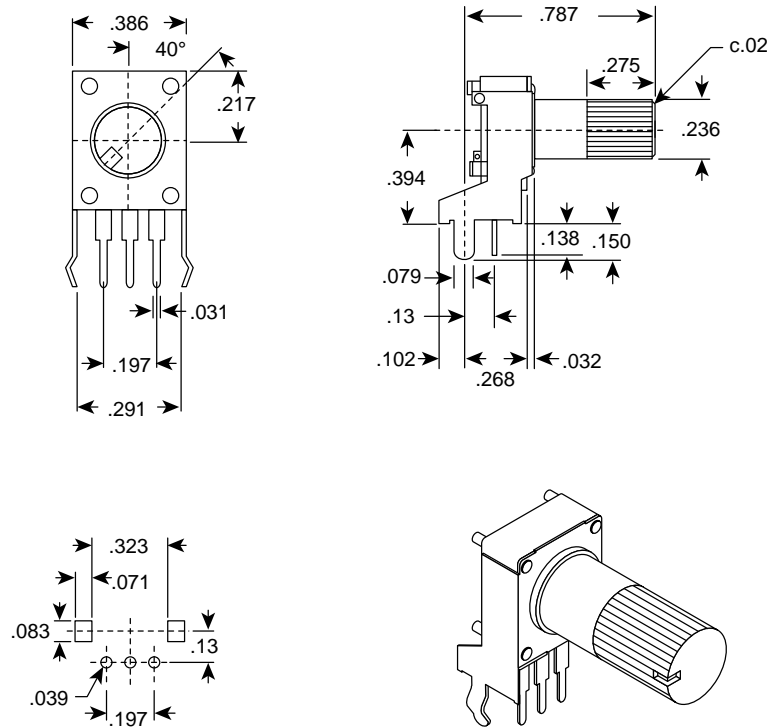


Dimensions (In.)

Specifications:

- Type: linear taper with switch
- Rotation angle: $300^{\circ} \pm 5^{\circ}$
- Rotation torque: 50~350g/cm
- Power rating: 0.5W
- Voltage rating: 500V
- Switch circuit: SPST
- Switch rating: 125VAC @ 1A

Mouser Stock No.	Value (Ω)
31VM205	500
31VM301	1K
31VM303	2.5K
31VM305	5K
31VM401	10K
31VM405	25K
31VM501	50K
31VM503	100K
31VM503	250K
31VM505	500K
31VM601	1MEG



Dimensions (In.)

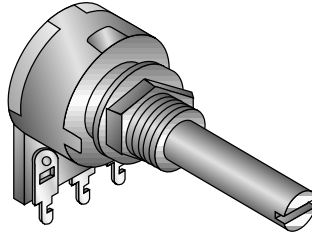
Specifications:

- Type: miniature snap-in
- Rotation angle: $280^\circ \pm 5^\circ$
- Rotation torque: 10 ~ 100gf.cm
- Shaft stop strength: more than 3Kgf cm/min.
- Rotation life: 10,000 cycles
- Rated wattage: .1W
- Rated voltage: 50VAC

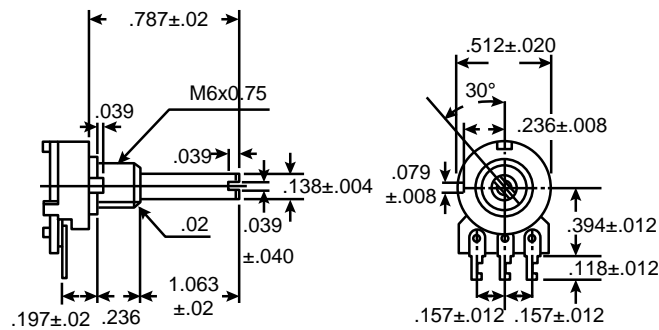
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Dimensions (In.)



Specification:

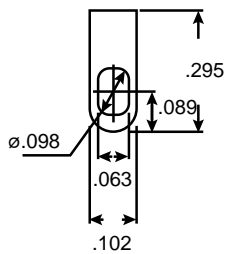
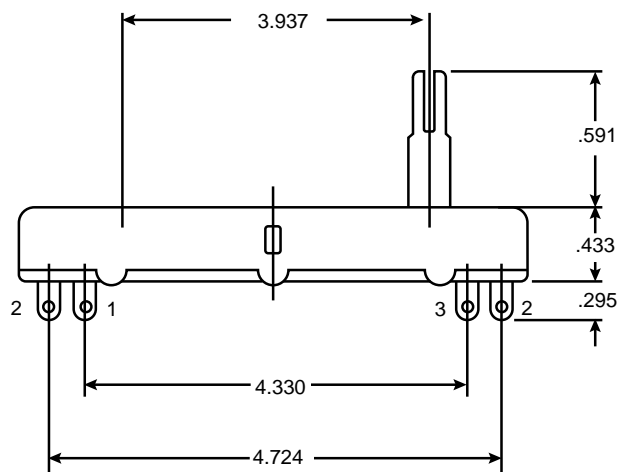
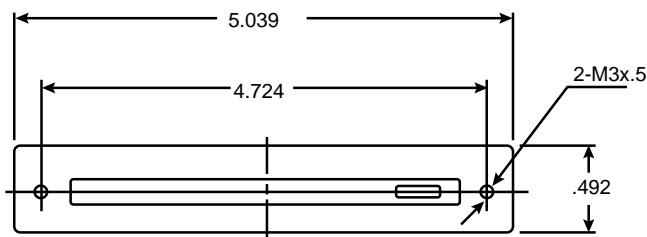
- Rotation angle: $300^\circ \pm 10^\circ$
- Rotation torque: 20~200gr. cm
- Resistance range: 500 ~ 1M Ω
- Power rating: 0.1W
- Dielectric strength: 500VAC
- Linear taper

13mm Micro-Miniature Carbon Composition

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Dimensions (In.)

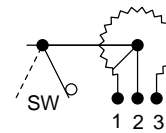
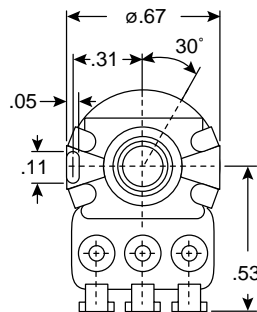
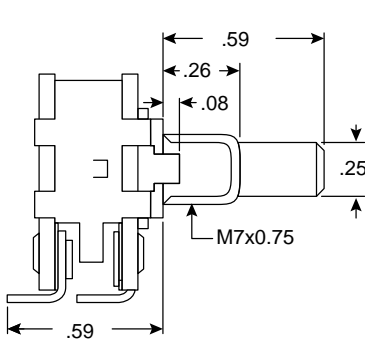
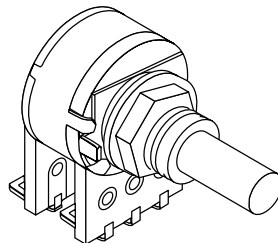


Specifications:

- Resistance tolerance: $\pm 20\%$
- Rated wattage: .5
- Rated voltage: 500
- Sliding life: 15,000 cycles
- Insulation resistance: 100M Ω min. @ 500VDC
- Withstand voltage: 1 min. @ 500VAC

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Schematic

Dimensions (In.)

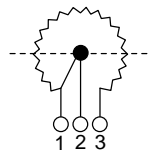
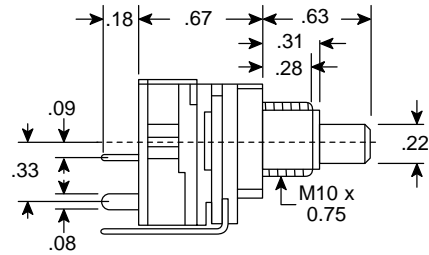
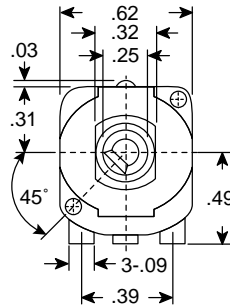
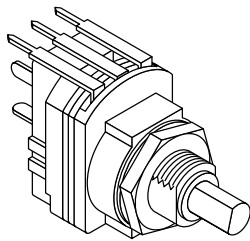
Specifications:

- Type: linear taper w/ switch
- Switch circuit: SPST
- Case material: zinc plated steel
- Shaft material: zinc alloy
- Element material: carbon
- Rated wattage: 0.2W
- Rated voltage: 200V
- Withstand voltage: 500VAC for 1 minute
- Insulation resistance: >100M Ω @ 500VDC
- Wiper tracking: $\pm 10\%$
- Values available: 1K, 5K, 10K, 50K, 100K, 500K, 1M
- Nominal tolerance: $\pm 20\%$ (1M = $\pm 30\%$)
- Switch contact resistance: 20m Ω
- Switch rating: 12VDC/ 1A
- Rotation life: 15,000 cycles
- Switch working angle/stroke: $50^\circ \pm 10^\circ$
- Switch working torque/force: 150~450gf.cm
- Shaft stop strength: 6Kgf.cm (min.)
- Rotational noise: 47mV
- Rotation torque: 20~200gf.cm
- Total rotation angle: $300^\circ \pm 5^\circ$
- End resistance: 20 Ω @ each end

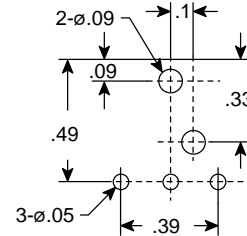
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Schematic



Mounting Hole

Dimensions (In.)

Specifications:

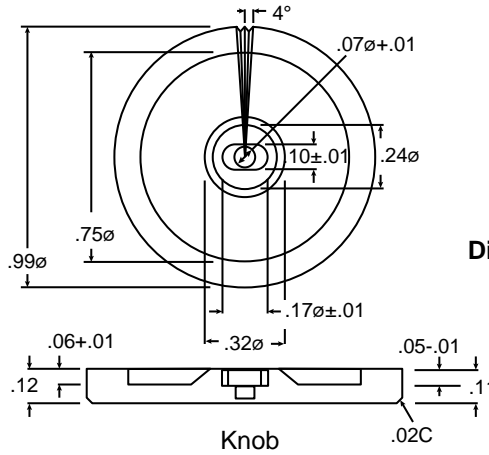
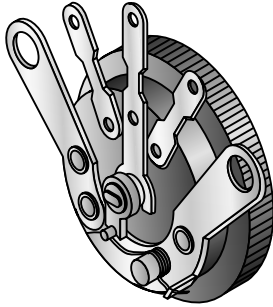
- Type: 16mm PC mount linear taper w/ switch
- Rated voltage: 200V
- Rated wattage: 0.2W
- Insulation resistance: >100MΩ @ 500VDC
- Breakdown voltage: 1,000VAC for 1 minute
- Tolerance: <1M: ±20%, ≥1M: ±30%
- Rotational life: 100,000 operations
- Rotation angle: 270°±5°

- Rotation torque: 20~200gf.cm
- Switch contact resistance: >100mΩ
- Switch rating: 250VAC, 10A
- Switch working angle/stroke: 40° (max.)
- Switch working torque/force: 200~600gf.cm
- Switch life: 10,000 operations
- Switch circuit: SPST
- Shaft: "D", nylon
- Shaft stop strength: 4Kgf.cm (min.)

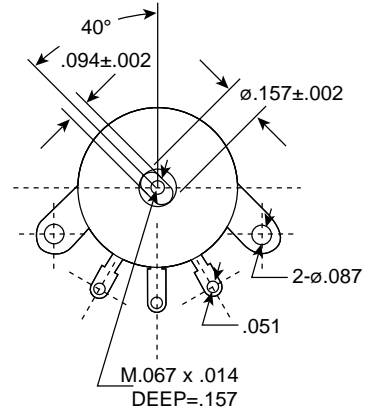
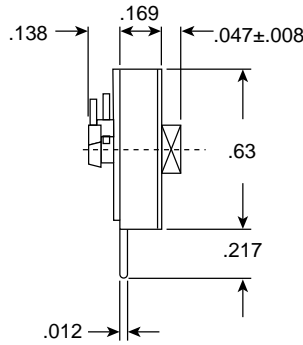
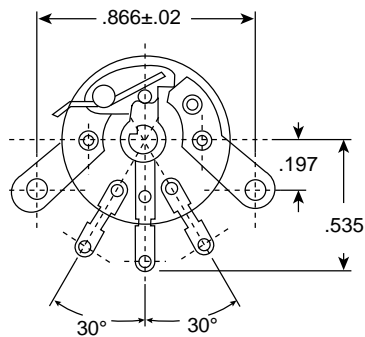
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Dimensions (In.)



Specifications:

- Total rotation angle: 260°±5°
- Rotation torque: 20~200 gf.cm
- Shaft stop strength: More than 3Kgf.cm/min.
- Rated wattage:

linear taper	0.1W
audio taper	0.05W
- Rated voltage:

200V	150V
------	------
- Switch circuit: S.P.S.T.
- Switch rating: 12VDC, 1A
- Switch working angle: 30°±10°
- Rotational life: 10,000 cycles

Audio Taper with Switch

Mouser Stock No.	Value (Ω)
31TV205	500
31TV301	1K
31TV302	2K
31TV305	5K
31TV401	10K
31TV405	50K
31TV501	100K
31TV505	500K
31TV601	1M

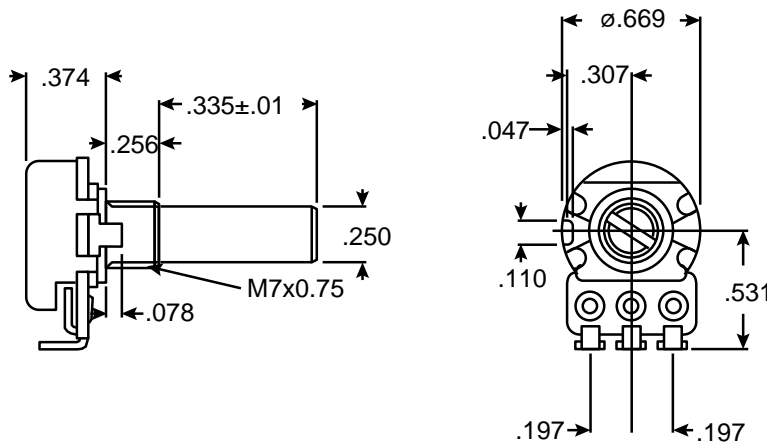
Linear Taper with Switch

Mouser Stock No.	Value (Ω)
31XT205	500
31XT301	1K
31XT305	5K
31XT401	10K
31XT405	50K
31XT501	100K
31XT505	500K
31XT601	1M

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Dimensions (In.)



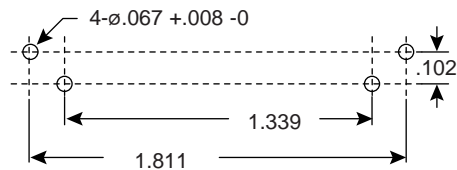
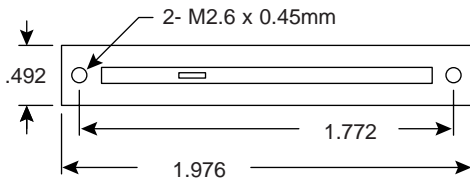
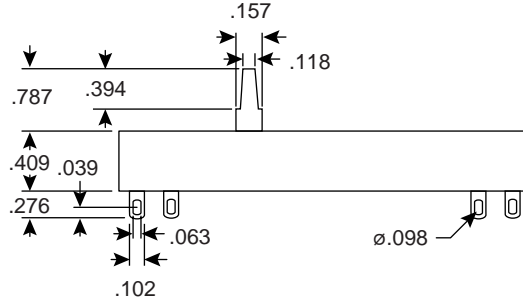
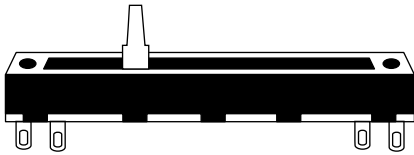
Mechanical:

- Total rotation angle: 300°C±5°C
- Rotation torque: 20~200gf.cm
- Shaft stop strength: More than 6Kgf.cm/min.
- Click position: Center cm 11 positions
- Click torque: 100~400 gf.cm

Electrical Specifications:

- Rated wattage: Linear taper (B)-0.2W, other taper-0.1W
- Rated voltage: Linear taper (B)-200V, other taper-150V
- Insulation resistance: More than 100MΩ at 500VDC
- Withstand resistance: 500VAC, 1 minute

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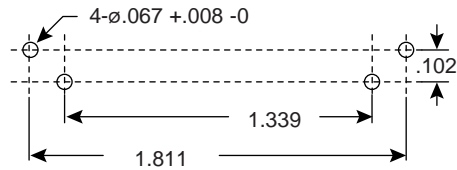
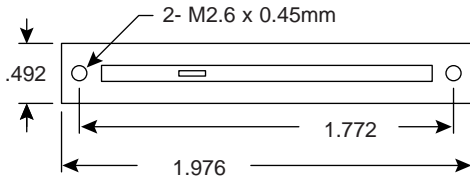
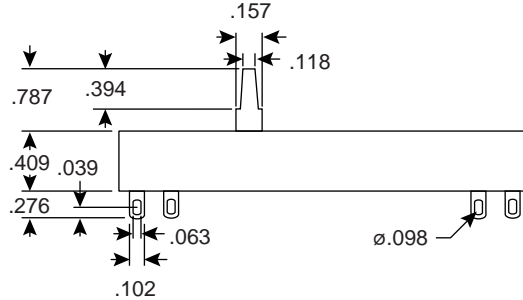
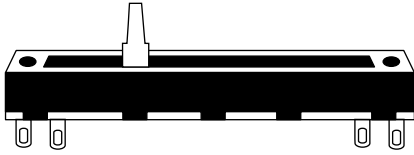


Mounting Holes

Dimensions (In.)
(except where noted)

Specifications:

- Type: linear taper
- Rated wattage: 0.2
- Rated voltage: 200
- Insulation resistance: 50MΩ min. @ 500VDC
- Withstand voltage: 300VAC for 1 minute
- Operating force: 20~260gf.cm. (single)
- Lever stop strength: 5kg/60sec. (5mm), 5kg/60 sec. (10mm)
- Lever wobble: 2 (2XL)/20mm Max. (L= lever length both sides)
- Sliding life: 15,000 cycles
- Slide travel: 1 3/16"
- Values (Ω): 500, 1K, 5K, 10K, 25K, 50K, & 100K

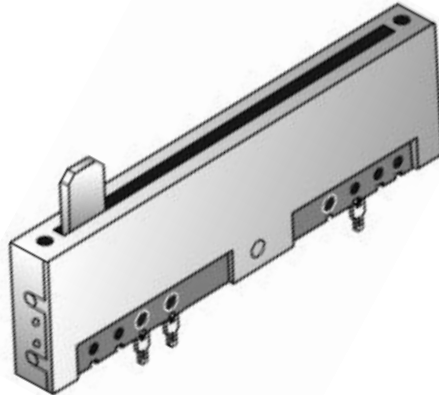


Mounting Holes

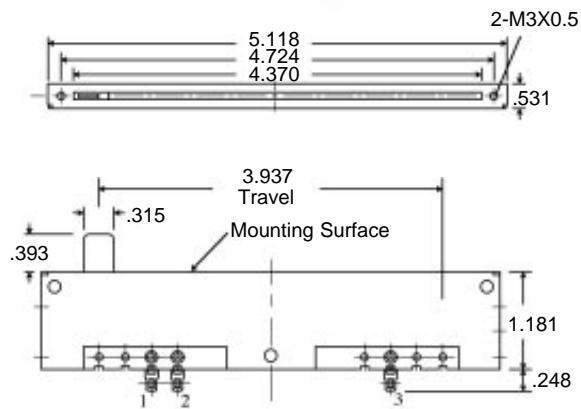
Dimensions (In.)
(except where noted)

Specifications:

- Type: audio taper
- Rated wattage: 0.1
- Rated voltage: 200
- Insulation resistance: 50MΩ min. @ 500VDC
- Withstand voltage: 300VAC for 1 minute
- Operating force: 20~260gf.cm. (single)
- Lever stop strength: 5kg/60sec. (5mm), 5kg/60 sec. (10mm)
- Lever wobble: 2 (2XL)/20mm Max. (L= lever length both sides)
- Sliding life: 15,000 cycles
- Slide travel: 1 3/16"
- Values (Ω): 1K, 5K, 10K, 50K, & 100K



Dimensions (In.)



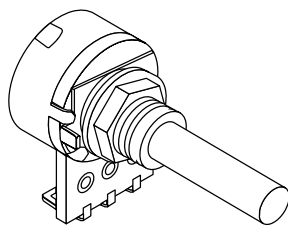
Mechanical Specifications:

- Operating force: Single: 10~50gf.cm. Dual: 30~80gf.cm.
- Lever stop strength: 5kg/60sec.
- Shaft wobble: 2XL/25mm (one side)

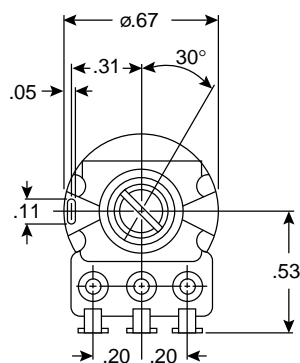
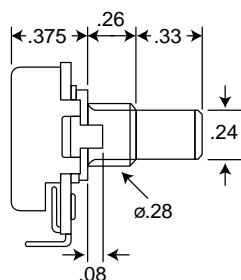
Electrical Specifications:

- Total resistance range: $2K\Omega$ to $500K\Omega \pm 20\%$
- Power rating: 312-9600-Series: 0.5W, 312-9700-Series: 0.25W
- Taper: 312-9600-Series: Linear, 312-9700-Series: Audio
- Operating voltage max.: 312-9600-100K: 500VDC, 312-9700-10K: 300VDC
- Withstanding voltage: 1 minl at 500VAC
- Insulation resistance: $100M\Omega$ at 500VDC
- Tolerance: $\pm 20\%$
- Slide noise: $>47mV$
- Life expectancy: 15,000 cycles min.

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Dimensions (In.)



Shaft shown in full
C.C.W. position

Specifications:

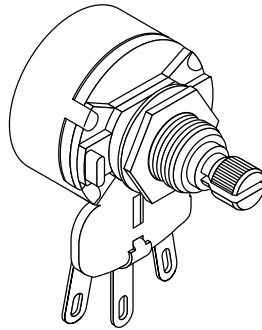
- Rated wattage: 0.2W
- Rated voltage: 200V
- Insulation resistance: >100M Ω @ 500VDC
- Breakdown voltage: 500VAC for 1 minute
- Rotation life: 15,000 cycles
- Element material: carbon
- Wiper tracking: $\pm 10\%$
- Nominal tolerance: $\pm 20\%$
- Rotational noise: 47mV
- End resistance: 20 Ω @ each end
- Shaft material: zinc alloy
- Case material: steel
- Case finish: zinc plate
- Total rotation angle: $300^\circ \pm 5^\circ$
- Shaft stop strength: 6Kgf. cm/min.
- Resistance taper: linear

Mouser Stock No.	Value (Ω)
313-2000-Series	1K, 2K, 5K, 10K, 25K, 50K, 100K, 250K, 500K, 1M

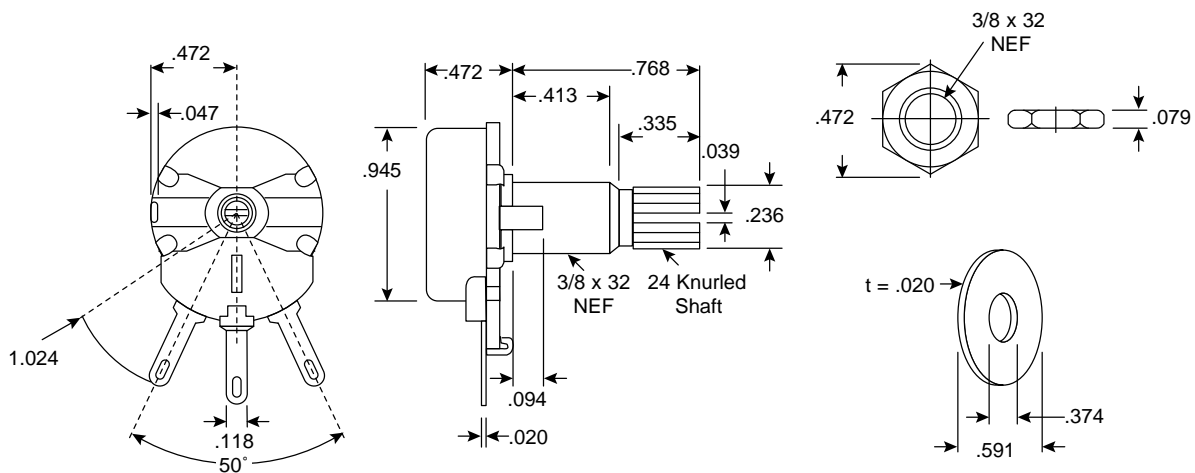
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Dimensions (In.)



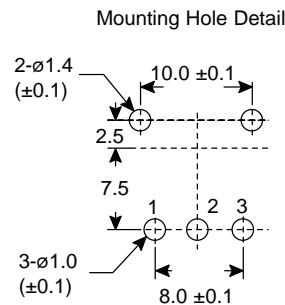
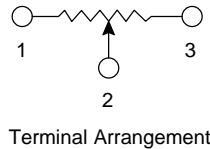
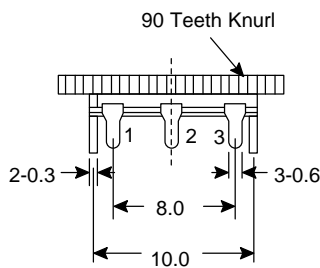
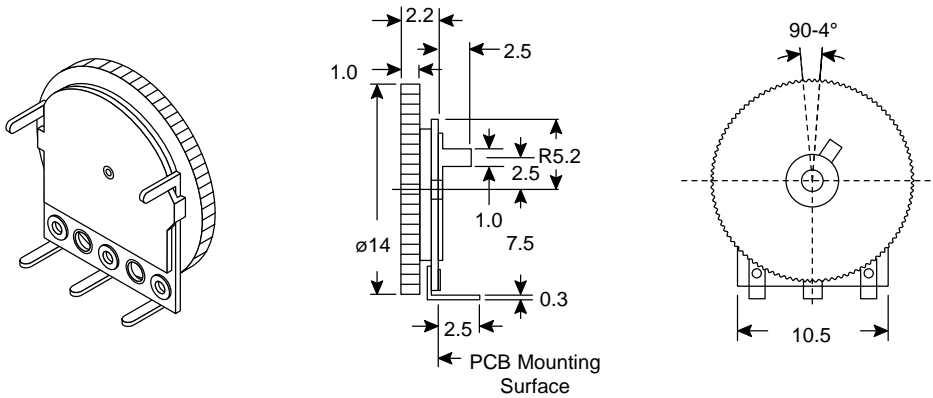
Specifications:

- Total rotation angle: $300^\circ \pm 5^\circ$
- Rotation torque: 50~300kg cm
- Resistance & tolerance: 20%
- Rated wattage: 3W
- Temperature range: from -10°C to 70°C
- Life cycles: 15,000

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Dimensions (mm)

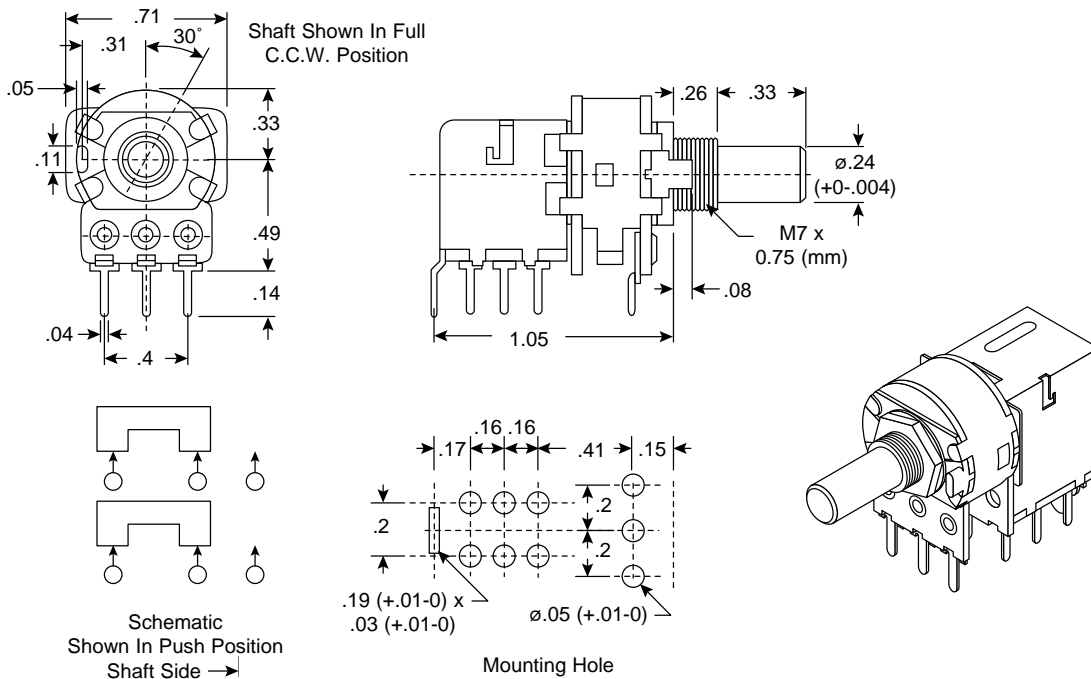
Specifications:

- Power rating: 0.03W
- Rotation angle: $270^\circ \pm 5^\circ$
- Rotation torque: 10-100gf-cm
- Rotation life: 10,000 cycles
- Resistance tolerance: $<1M: \pm 20\%$, $\geq M: \pm 30\%$
- Insulation resistance: 100VDC, 100M Ω min.
- Dielectric: 100VAC for 1 minute
- Noise: 100mV max.
- Linear taper
- Stock values: 1K, 5K, 10K, 50K, 100K, 500K, 1M
- Complete with knob

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Dimensions (In.)

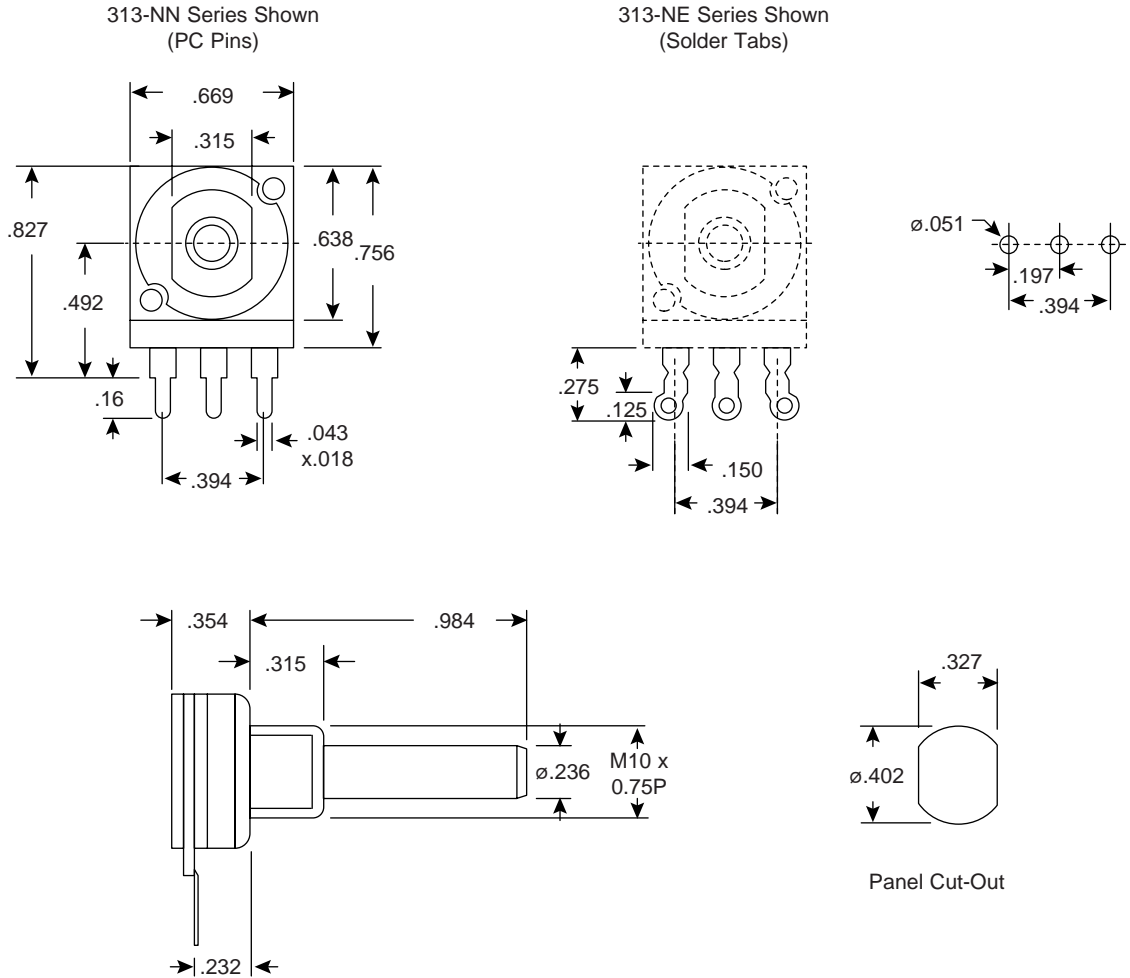
Specifications:

- Switch circuit: P/P DPDT
- Taper: linear
- Rated voltage: 200V
- Rated wattage: 0.2W
- Rotation angle: 300° ±5°
- Rotation torque: 20~200 gf.cm
- Rotation life: 15,000 cycles
- Insulation resistance: >100MΩ @ 500VDC
- Switch contact resistance: <20mΩ
- Usable temperature range: -10°C~70°C
- Dielectric: 500VAC for 1 minute
- Breakdown voltage: 500VAC for 1 minute
- Tolerance: <1M: ±20%, ≥1M: ±30%
- Switch rating: 0.3A, 30VDC
- Shaft stop strength: 6Kg.cm static load/min.
- Switch working angle (stroke): 4mm
- Switch working torque (force): 800gf.cm (max.)
- Switch life: 10,000 times
- Terminals: solder lug
- Small size
- Each supplied with 1 hex nut & 1 flat washer

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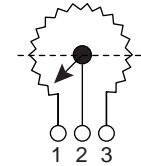
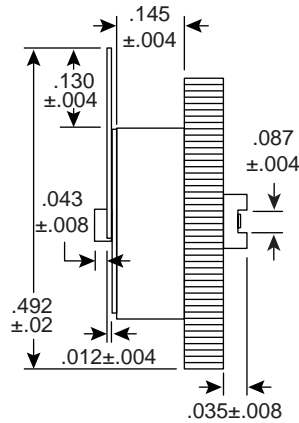
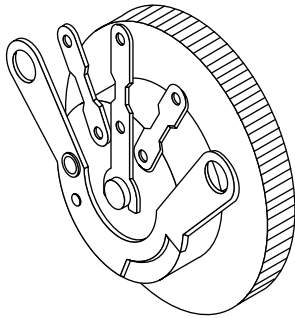
<http://www.mouser.com>



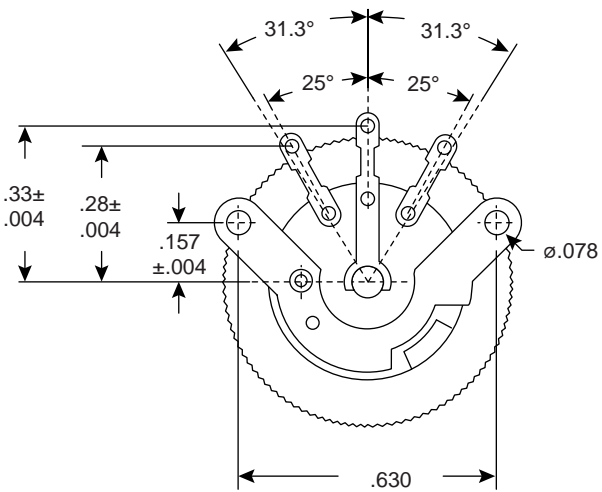
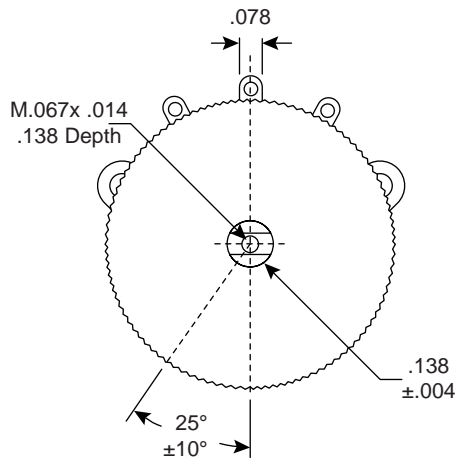
Dimensions (In.)

Specifications:

- Resistance range: 1K to 1M (linear) 4K7 - 470K (non-linear)
- Resistance value: 1, 2.2 & 4.7 in each decade
- Resistance tolerance: $\pm 20\%$ (10% by selection)
- Rated dissipation @ 20°C: .25W (linear) .125W (non-linear)
- Limiting element voltage: 350VDC or AC RMS
- Electrical rotation: 240°C
- Terminal resistance: 5 Ω max.
- Noise (ENR): 2% max. (linear) 3% max. (non-linear)
- Insulation resistance: 4G Ω min.
- Voltage proof: 1K VAC peak
- Operating torque max.: 25m Nm max.
- Mechanical rotation: 270°C nominal
- End stop torque: 350m Nm max.
- Limits of resistance change: 15% (after 1000 hrs endurance)
- Temperature characteristics of resistance: 5% (20°C to 70°C)
- Bump severity: 390m/s², 4000 bumps
- Vibration severity: 10 - 500Hz, .75mm or 98m/s²
- Climatic category: 25/70/04
- Mechanical endurance: 15000 operations (min.)



Circuit Diagram

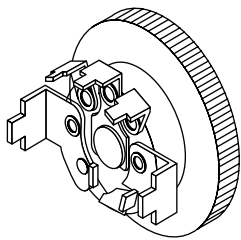


Dimensions (In.)

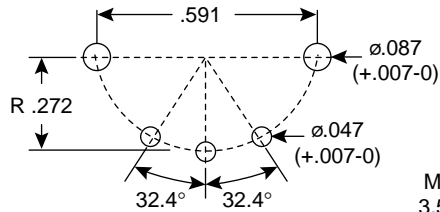
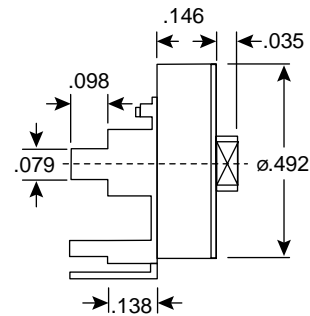
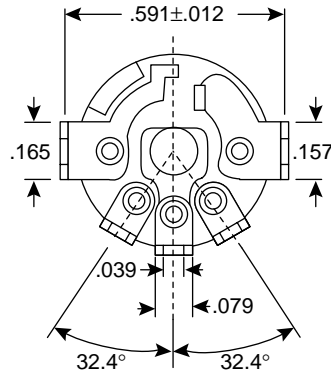
Mouser Stock No.	Description	Wattage (W)	Voltage (V)
311-1201-Value	Audio taper	.04	100
311-1205-Value	Linear taper	.08	150

Specifications:

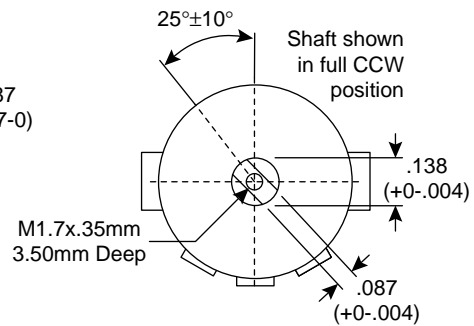
- Type: thumbwheel with solder lugs
- Rotation angle: $230^\circ \pm 5^\circ$
- Rotation torque: 20~200gf. cm
- Stop strength: >2Kgf. cm/min
- Resistance tolerance: $\pm 20\%$
- Values: 1K, 5K, 10K, 100K, 500K



Dimensions (In.)
(except where noted)



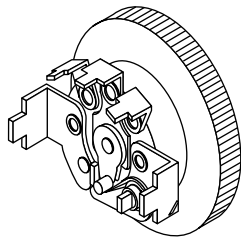
Mounting Holes



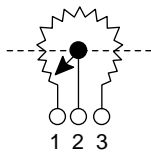
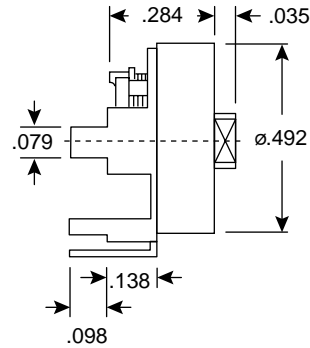
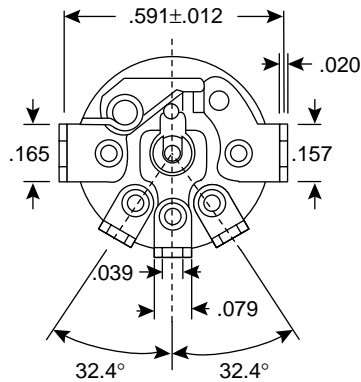
Specifications:

- Type: PC mount, 12mm subminiature thumbwheel
- Resistance tolerance: $\pm 20\%$
- Rotation angle: $230^\circ \pm 2^\circ$
- Rotation torque: 20~200gf.cm
- Rotation life: 15,000 cycles
- Stop strength: > 2Kgf.cm/min.

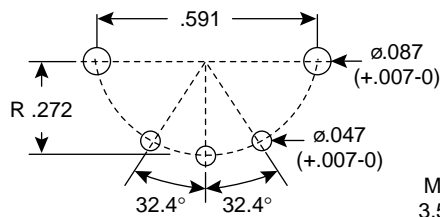
Mouser Stock Number	Description	Wattage (W)	Voltage (V) max.	Values (Ω)
311-1202-Value	Audio taper	.04	100	1K, 5K, 10K, 50K, 100K, 500K
311-1206-Value	Linear taper	.08	150	1K, 5K, 10K, 50K, 100K, 500K



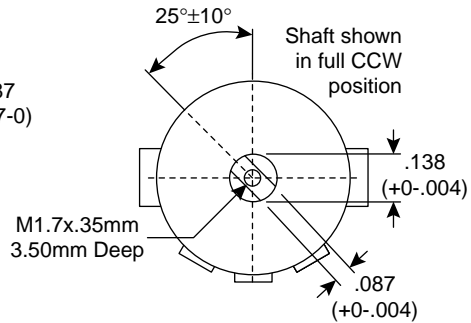
Dimensions (In.)
(except where noted)



Circuit Diagram



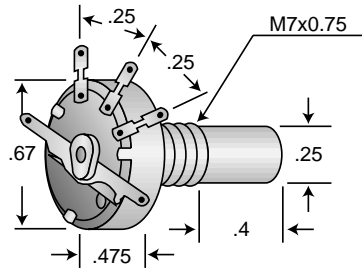
Mounting Holes



Specifications:

- Type: PC mount, 12mm subminiature thumbwheel with switch
- Resistance tolerance: $\pm 20\%$
- Rotation angle: $230^\circ \pm 2^\circ$
- Rotation torque: 20~200gf.cm
- Wattage: .04W
- Voltage: 100V max.
- Rotation life: 15,000 cycles
- Stop strength: > 2Kgf.cm/min.
- Switch contact rating: 12VDC-1A

Mouser Stock No.	Values Ω
311-1204-Value	1K, 5K, 10K, 50K, 100K, 500K



Dimensions (In.)

Miniature size potentiometers, aluminum shafts, bushings, body is plated steel, with bakelite rear plate. Contacts and terminals are silver plated brass. Each is supplied with one hex nut and one flat washer.

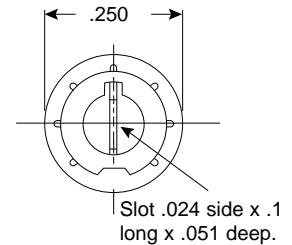
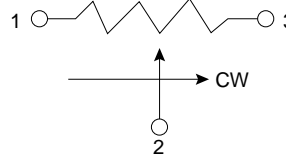
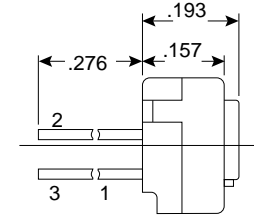
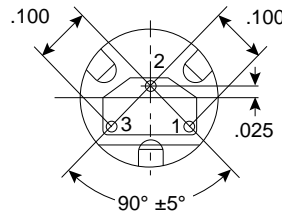
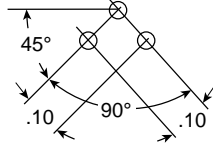
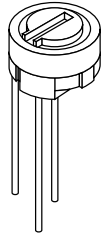
Specifications:

- Resistance element: carbon composition
- Switches rated @ 1 amp @ 12VDC
- Tolerance: $\pm 20\%$
- Rated: .05 watt
- Audio taper

Mouser Stock No.	Value (Ω)
31CC301	1K
31CC401	10K
31CC501	100K

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Dimensions (In.)



Electrical Specifications:

- Resistance range: 10Ω to 2MΩ
- STD resistance values: 1, 2 and 5 in each decade
- STD resistance tolerance: ±20%
- End resistance: 3Ω or 3% whichever is greater
- Slider current: 50mA
- Power rating, watts: 0.5 @ 70°C derating to zero @ 125°C
- Isolation voltage: 300VDC of AC peak
- Limiting element voltage: 200VDC or AC RMS, max
- Breakdown voltage: 600VAC for 1 minute
- Insulation resistance: 1000MΩ @ 500VDC min.
- Resolution: essentially infinite
- Rotational noise (CRV): 3Ω or 3%, whichever is greater
- Temperature coefficient: ±100ppm/°C
- Electrical adjustment: 1 turn - 210° nominal

Mechanical Specifications:

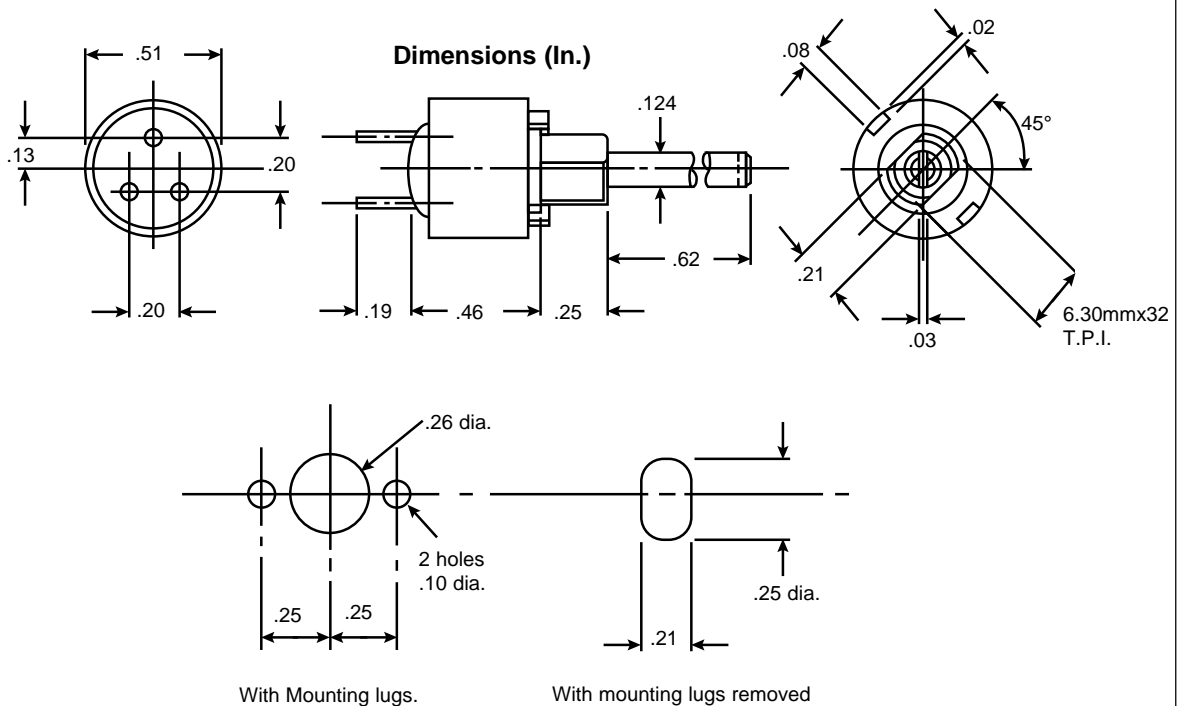
- End stop: 49mNm min.
- Starting torque: 35mNm max.
- Mechanical adjustment: 1 turn - 270° nominal
- Weight: .42gm to .55gm nominal

Environmental Specifications:

- Temperature range: -55°C to +125°C
- Temperature storage: 250 hrs @ 125°C
- Thermal shock: 5 cycles -55°C to +125°C
- Bump severity: 4000 bumps; 40G
- Vibration severity: 10 - 500Hz; 20G
- Rotational life: 200 cycles
- Load life @ 70°C: 1000 hrs @ .5W
- Sealing: sealed for immersion and board washing processes
- Climactic category: 55 / 125 / 21

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Specifications:

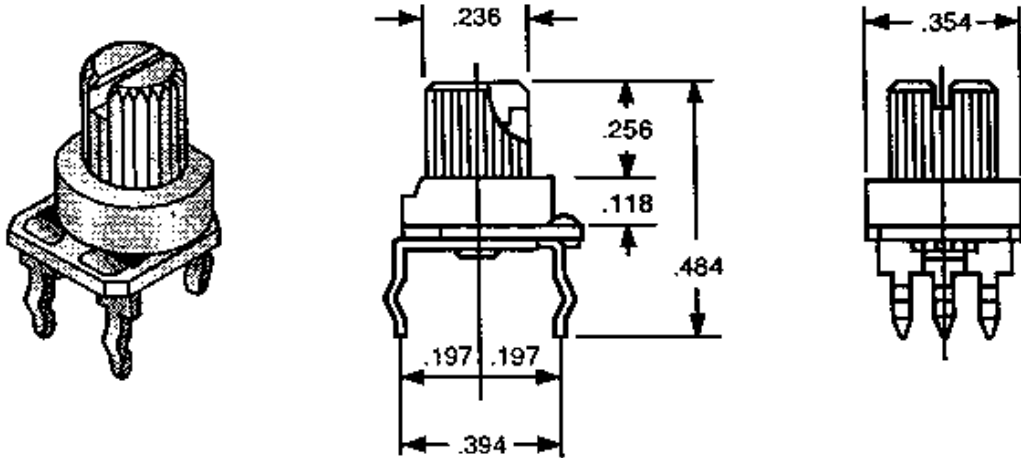
- Resistive element: cermet
- Resistance range: 100Ω to 1MΩ
- Resistance tolerance: ±20%
- Taper: linear
- Wattage rating: 0.5W
- Working voltage: 450VDC
- Electrical rotation: 260°
- Terminal resistance: ≤5Ω
- Dynamic noise: 3% max
- Insulation resistance: >5GΩ
- Dielectric withstanding voltage: 630VAC
- Operating temperature: -55°C to +125°C
- Load life: 3% change of total resistance (1000 hrs)

Mechanical Specifications:

- Slotted shaft
- Locknut included
- Rotation torque: 5-20mNm
- Rotation angle: 295° ± 5°
- End stop strength: >225mNm
- Shock test: 390 m/s², 4000 cycles
- Vibration test: 10-500Hz, .75mm or 98m/s²
- Rotation life: 25000 min.

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DIMENSIONS (IN.)

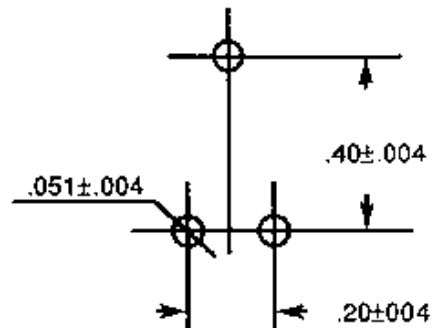


MECHANICAL SPECIFICATIONS:

- End stop: 1 KgF-cm min.
- Starting torque: 35 mNm max.
- Mechanical adjustment: 1 turn-260° Nominal
- Weight: 0.8 gms, max.
- Pull strength of cover: pull 1kg min.

ELECTRICAL SPECIFICATIONS:

- Resistance Range: 5K to 100K
- STD resistance tolerance: $\pm 20\%$
- End resistance: 2%, Nominal
- Wiper Current: 50mA max.
- Power rating, Watts: 0.3 @ 70°C derating to zero @ 100°C
- Max working voltage: 200VDC or AC RMS, max.
- Resolution: Essentially infinite
- Rotational noise (CRV): 3% max.
- Temperature coefficient: ± 250 ppm/°C max.



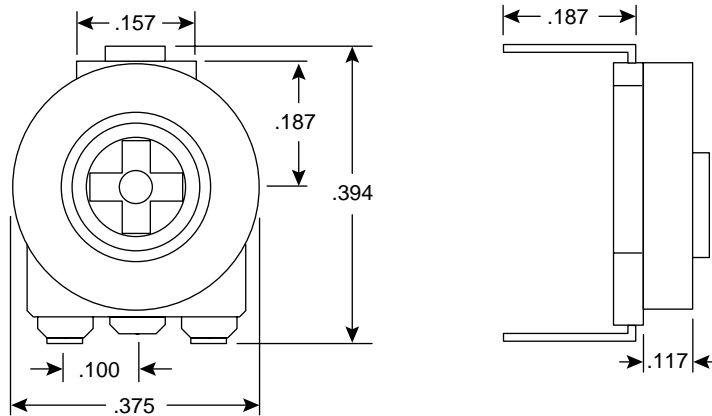
ENVIRONMENTAL SPECIFICATIONS:

- Temperature range: -25°C to +100°C
- Temperature storage: 1000 hrs @ 100°C
- Bump severity: 4000 Bumps; 40G
- Vibration severity: 10-55Hz; double amplitude
- Rotational life: 100 cycles, min.
- Load life @ 70°C: ΔR 5% after 1000 l
- Sealing: Dust proof.
- Climatic category: 25/100/21
- Soldering time: 350°C \pm 10°C 3 sec r

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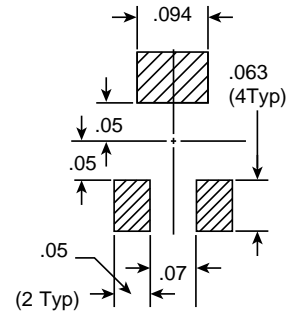
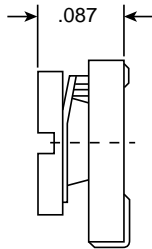
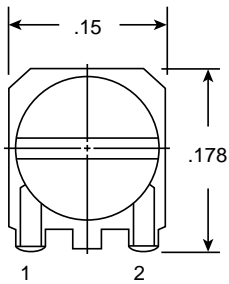
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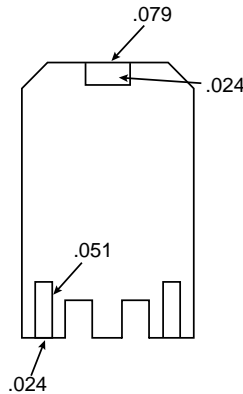
**Dimensions (In.)****Specifications:**

- Type: sealed trimmer
- Wattage: 0.2W @ 70°C
- Voltage: 100V max.
- Rotation angle: $260^{\circ} \pm 10^{\circ}$
- Rotational life: 10% change after 100 rotations max.
- Rotational torque: 30~300g/cm
- Taper: linear
- Tolerance: $\pm 20\%$
- Operating temperature: $-40^{\circ} \sim +100^{\circ}\text{C}$

Dimensions (In.)



Pad Mounting Dimensions



Specifications:

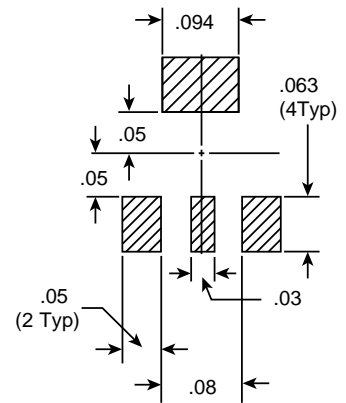
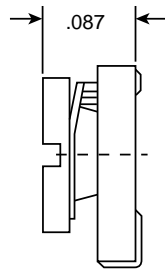
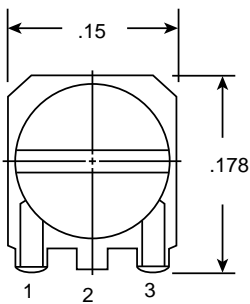
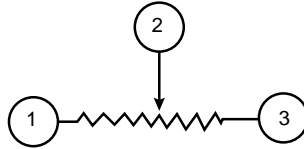
- Temperature: = / - 30%
- Taper: Linear
- Power rating: 0.2 watts @ 70 C
- Operating temp: -30 Deg. C to +100 Deg C
- Rotational torque: 20 to 200 q / cm
- Temperature coefficient: +/- 250 ppm / deg. C

Standard Values: 1K, 5K, 10K, 20K, 50K, 100K, 500K

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Dimensions (In.)

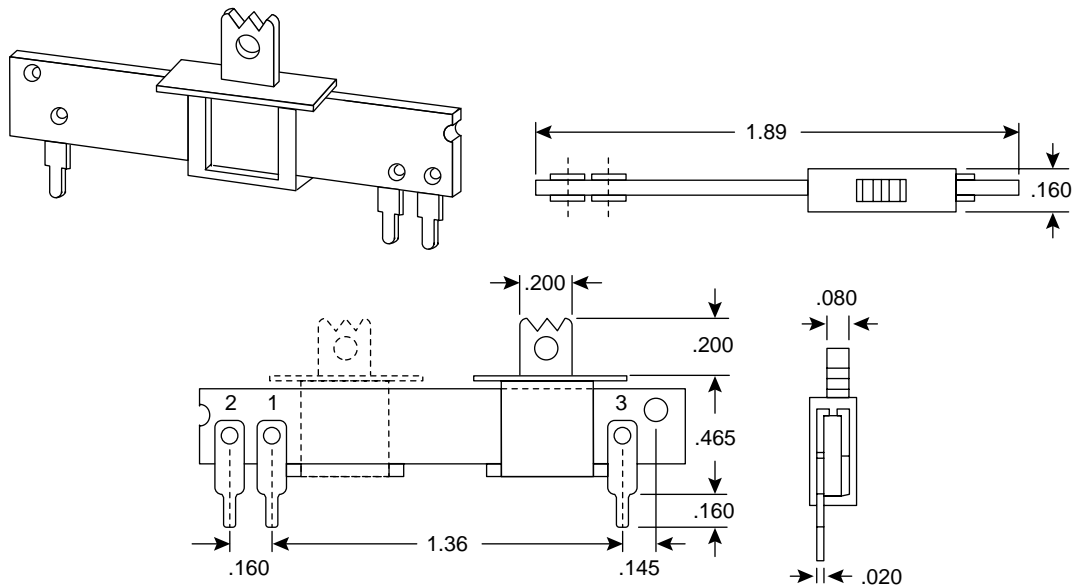


Specifications:

- Temperature: = / - 30%
- Taper: Linear
- Power rating: 0.2 watts @ 70 C
- Operating temp: -30 Deg. C to +100 Deg C
- Rotational torque: 20 to 200 q / cm
- Temperature coefficient: +/- 250 ppm / deg. C

Standard Values: 1K, 5K, 10K, 20K, 50K, 100K, 500K

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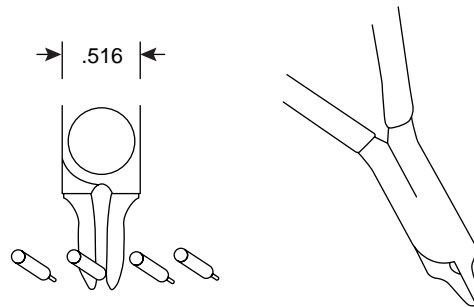


Dimensions (In.)

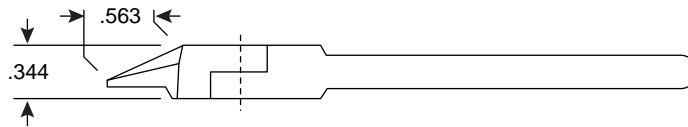
Specifications:

- Type: PC mount mini-slide potentiometers, linear taper
- Resistance tolerance: $\pm 20\%$
- Rated wattage: .1W @ 0~+50°C
- Working voltage: 100V max.
- Insulation resistance: 10M Ω @ 250VAC
- Withstand voltage: 100VAC for 1 minute
- Breakdown voltage: 250V for 1 minute
- Rated life: 15,000 cycles
- Slide noise: 71mV max.
- Usable temperature: -10~+70°C
- Slide travel: .785"

Mouser Stock No.	Values Ω
312-9500-Value	1K, 5K, 10K, 50K, 100K

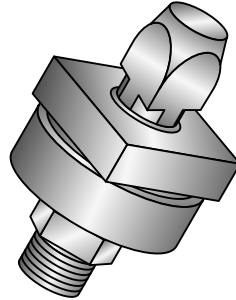


Dimensions (In.)



Specifications:

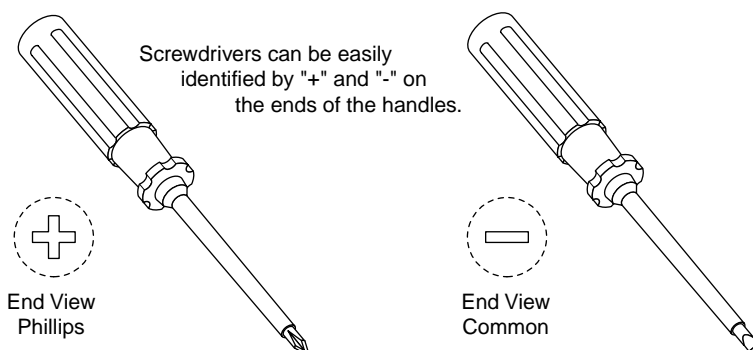
- Cutting head: very narrow; for cutting in close spaces
- Weight: 2.5 oz.
- Size: 5 inches



Mouser Stock No.	Hole Size		Drill Size		Bolt Size	
	(mm)	(In)	(mm)	(In)	(mm)	(In)
38SQ038	9.53	.375	10.0	.393	10.0	.393
* 380-0126	12.6	.496	10.0	.393	8.0	.314
380-0141	14.1	.555	10.0	.393	8.0	.314
* 380-0168	16.8	.661	14.5	.570	10.0	.393
* 38SQ034	19.1	.751	14.5	.570	10.0	.393
380-0325	32.5	1.279	16.5	.649	12.0	.472
380-1450	45.0	1.771	25.0	.984	16.0	.629

* Use of base race optional. All other cutters are supplied with a ball race.

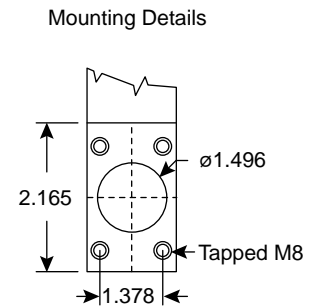
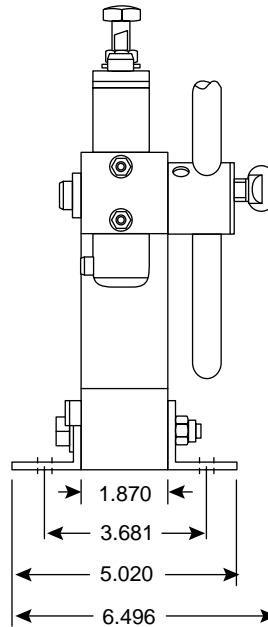
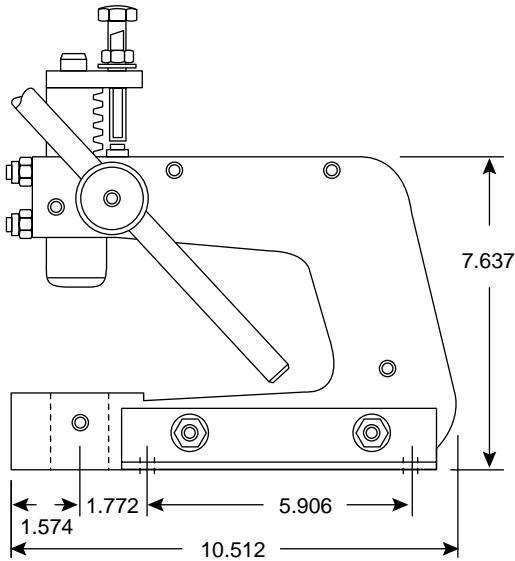
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Specifications:

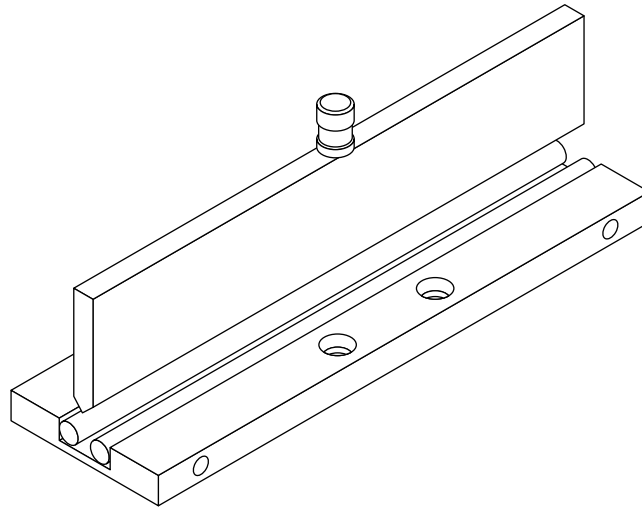
- Insulated protection: $\leq 1000V$
- Insulated areas: handle & blade
- Blade & tip: hard chrome vanadium
- Color: bright red (to indicate high voltage usage)

Mouser Stock No.	Type	Tip Size	Total Length
382-8001	Phillips	#1	6.6"
382-8002	Phillips	#2	8.1"
382-8003	Phillips	#3	10.6"
382-8005	Common	7/32"	6.6"
382-8006	Common	15/64"	8.1"
382-8008	Common	5/16"	10.6"

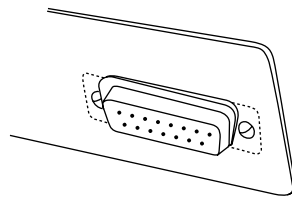
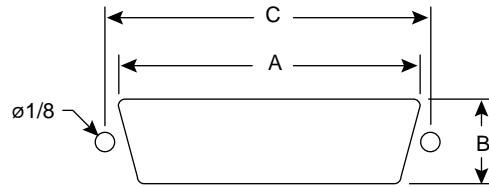


Dimensions (In.)

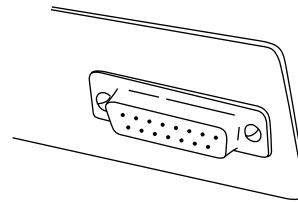
Specifications	Metric	Imperial
Ram diameter	31.57mm	1.243"
Ram bore dia.x depth	18mm+.03/-0x22mm	.708" +.001/-0 x.866"
Maximum ram pressure	1360kgf	3000lbf
Depth of throat	150mm	5.906"
Maximum height base to ram	83mm	3.268"
Stroke length with stop	6~60mm	.236"~2.362"
Stroke length without stop	6~76mm	.236"~2.992"
Clearance hole dia. in press bed	38.00mm	1.496"
Weight	14.2kg	31.25lbs
Maximum capacity of press fitted with tools & accessories:		
Mild steel (28 ton/in ² UTS)	1.6mm	.064" (16 SWG)
Aluminum	2.6mm	.102" (12 SWG)
Fiberglass board	2.0mm	.080"
SRBP	3.2mm	.125"

**Specifications:**

- Creates: 20~155mm sq. x 10~130mm deep brackets & sockets
- Includes: 5 bending punches (50, 75, 100, 125, & 150mm long);
3 blades (7.9", 9.8", & 11.8"); 1 baseplate (160mm long w/90° groove)
- Bending capacity: .063" mild steel; .098" aluminum
- Note: bending punches can be machined or cut to any required length



Universal or rear mounting



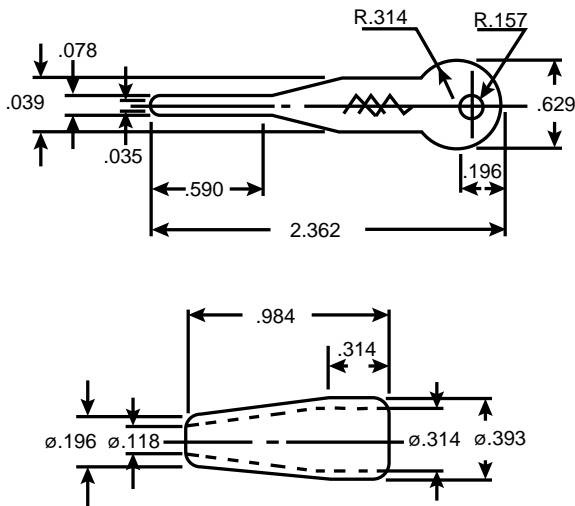
Front mounting

Dimensions (In.)

Specifications:

- Type: "D" connector
- Punching capacity: .065" (1.65mm) mild steel; .079" (2mm) aluminum
- Required drills (not supplied): 1/8" & 21/64"

Mouser Stock No.	No. of Pins	Mounting	Cutout Size (In.)		
			A	B	C
38DM919	9	Rear	.78	.44	.98
38DM921	9	Front	.84	.51	.98
38DM928	15	Rear	1.11	.44	1.31
38DM929	15	Front	1.17	.51	1.31
38DM941	25	Rear	1.65	.44	1.85
38DM943	25	Front	1.71	.51	1.85
38DM958	37	Rear	2.30	.44	2.50
38DM959	37	Front	2.35	.51	2.50
38DM955	50	Rear	2.19	.55	2.41
38DM957	50	Front	2.26	.62	2.41



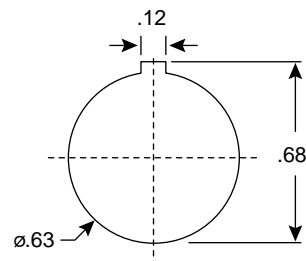
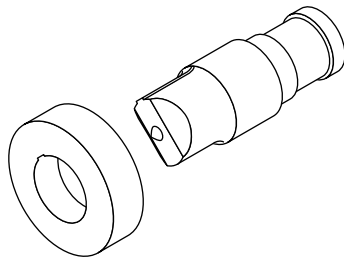
Instructions for Removal of Lens and Bulb:

Use Pin 382-0101 to remove the lens. After removing the lens use this same tool (P/N 382-0101) to remove the bulb. Put the tool's hook part (P/N 382-0101) into the small slot available on the side of the lens. Hook the bulb to remove it from the switch.

Pin 382-0100 is for bulb-mounting. This tool has two holes. Use the small hole to mount the bulb. Put the hole on the bulb (from the bulb's topside). Hold the bulb by the tool (P/N 382-0100) and insert it by holding the bulb by the tool (P/N 382-0100).

Mouser Stock No.	Description	Material
382-0100	Replacement lamp tool	Stainless steel
382-0101	Replacement LED tool	VINYL Chloride

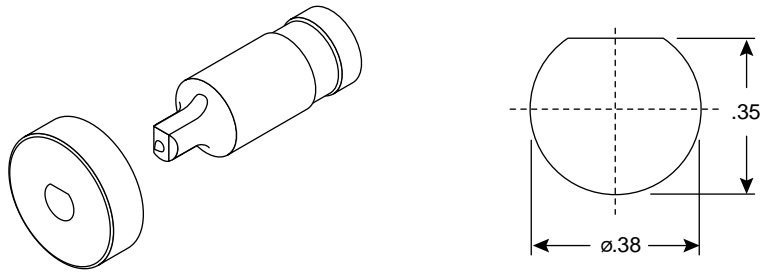
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Dimensions (In.)

Specifications:

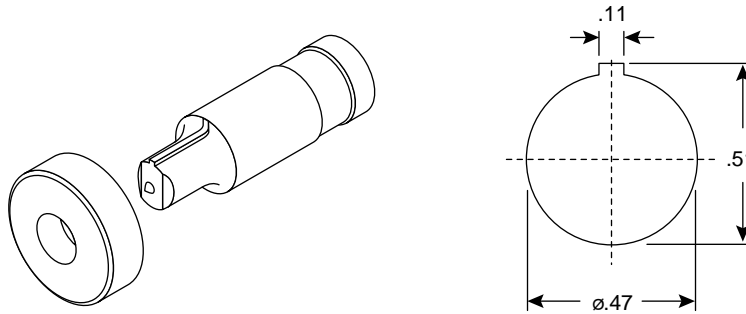
- Type: DIN socket punch & die
- Description: set will make a hole to fit all standard DIN chassis sockets



Dimensions (In.)

Specifications:

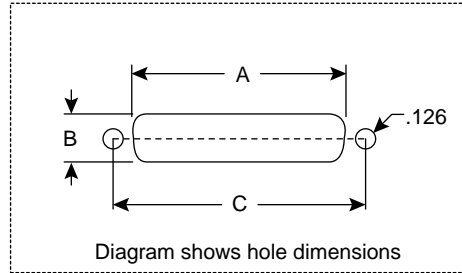
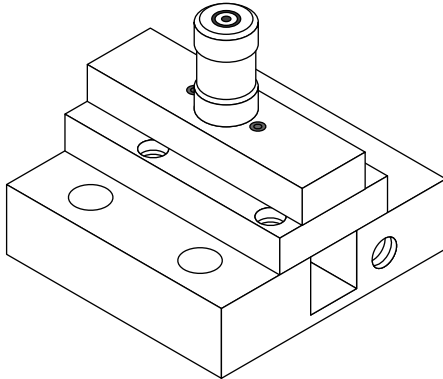
- Type: BNC punch & die
- Description: set will make a hole to fit all standard BNC round sockets



Dimensions (In.)

Specifications:

- Type: BNC insulator punch & die
- Description: set will make a hole to fit all standard BNC socket insulators

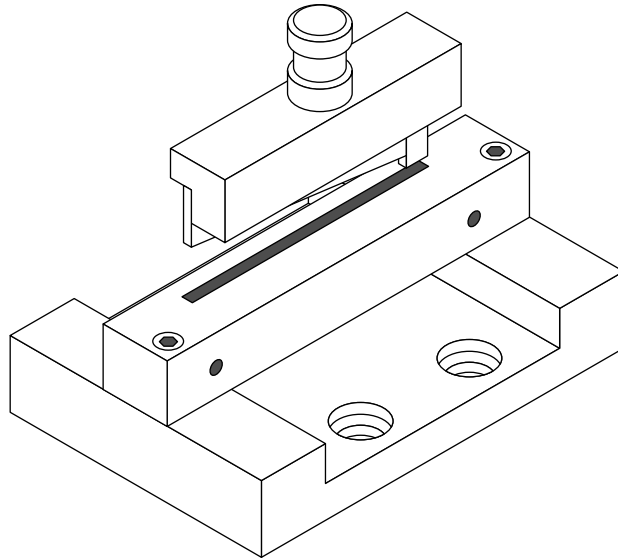


Dimensions (In.)

Specifications:

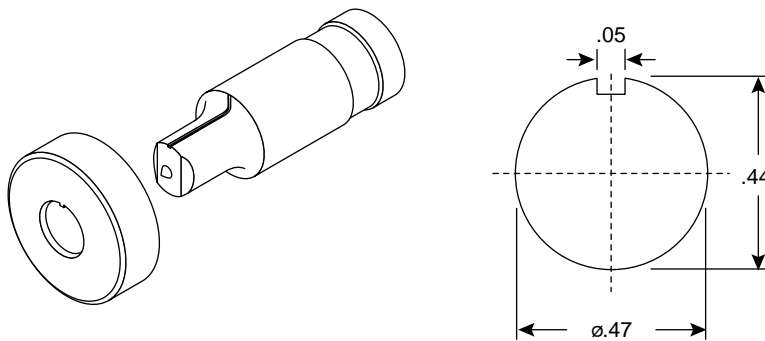
- Material: high quality steel
- Cutting edges: ground for working on variety of sheet materials
- Also available: stripping tool for continuous hole punching without having to reset
- Other: compatible with both 3,000 & 5,000 lb. presses (requires adaptor 381-5001 for use with 5,000 lb. manupress)

Mouser Stock No.	No. of Pins	Mounting	Dimensions (In.)		
			A	B	C
381-7601	9	Front	0.839	.508	0.984
381-7602	9	Rear	0.780	.405	0.984
381-7603	15	Front	1.165	.508	1.311
381-7604	15	Rear	1.110	.445	1.311
381-7605	25	Front	1.709	.508	1.850
381-7606	25	Rear	1.650	.445	1.850
381-7607	37	Front	2.354	.508	2.500
381-7608	37	Rear	2.299	.445	2.566
381-7609	50	Front	2.260	.618	2.410
381-7610	50	Rear	2.193	.547	2.410



Specifications:

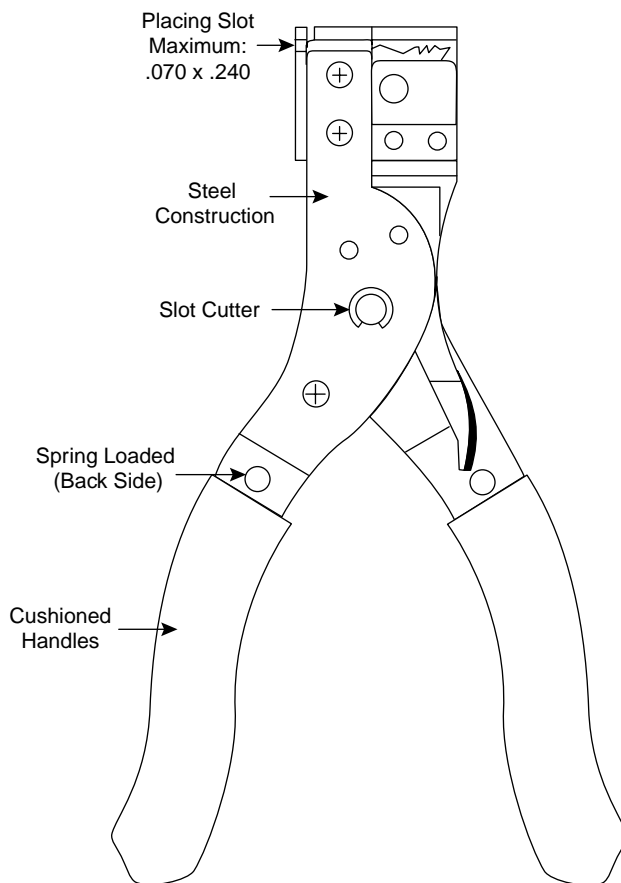
- Cut slot: .12 x 2.76 inches
- For accurate cutting & slotting without distorting the material
- A toe guide is built into the blade enabling a precise continuous cutting action



Dimensions (In.)

Specifications:

- Type: toggle switch punch & die
- Description: set will make a hole to fit most standard toggle switches

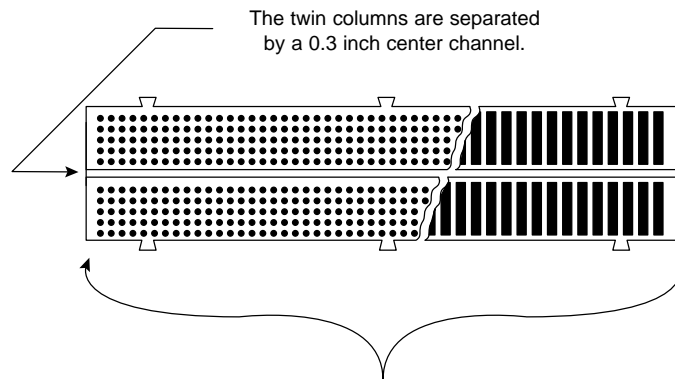
**Specifications:**

- Size: 6.3"
- Material: low carbon steel & heat treatment
- Finish: black-oxide

Operating Instructions:

1. Fasten the cable by cable ties.
2. Put the cable tie into the top channel then squeeze handle.
Repeat the operation until the bundle is tight.
3. Release the handles and insert the tie into slotter to cut the useless off.
It remains 3-4mm tall to prevent the knot from suddenly releasing.

PP



The twin columns are separated by a 0.3 inch center channel.

Each column has 64 groups of 5 connected terminals with 0.1 inch grid spacing.

Electrical Specifications:

- Length: 6.77 inches
- Width: 1.54 inches
- Height: 0.39 inches
- Tie points: 640
- Resistance: $<10\text{m}\Omega$ ($\varnothing 0.6\text{mm}$ lead @ 1KHz)
- Capacitance: $<10\text{pF}$ ($\varnothing 0.6\text{mm}$ lead @ 1KHz)
- Insulation: $>10\text{T}\Omega$ (500VDC for 1 minute)
- Contact current: 3A ($\varnothing 0.6\text{mm}$ lead)
- Wire size acceptability: $\varnothing 0.3\text{mm}\sim\varnothing 0.8\text{mm}$
- HI-POT test: 1500VDC for 1 minute
- Breakdown current: 30mA
- Note: Do not use high voltage on the bread board (AC $>50\text{V}$, CDC $>75\text{V}$)

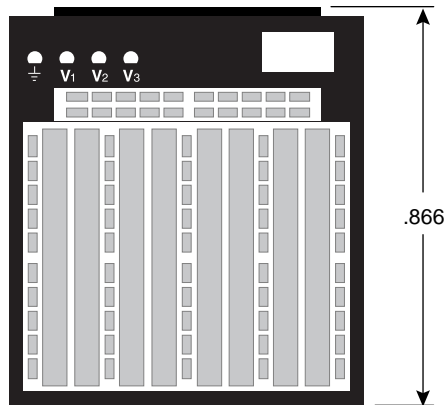
Material Specifications:

- External body material: ABS polymer (90°C max.)
- Internal contact material: silver & nickel alloy
- Snap lock design allows easy combination with each other for greater design flexibility

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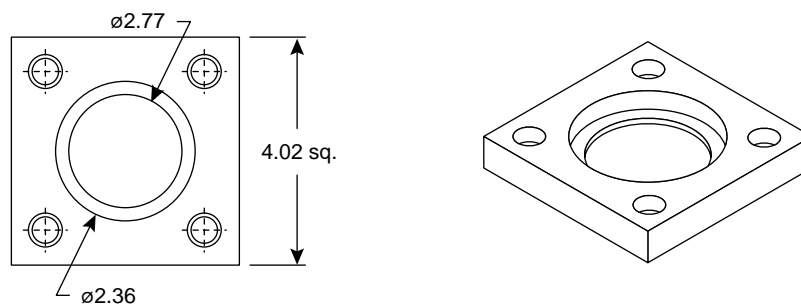


383-K326 Shown

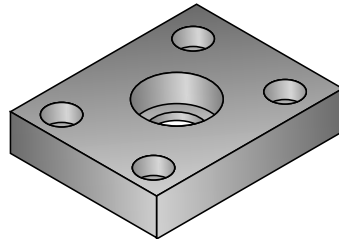
Specifications:

- Bus strip: 4 buses of 25 connected terminals are distributed in 4 rows
- Snap lock: easily combine to any size needed
- Base socket: twin columns are separated by 7.62mm center channel. There are 64 groups of 5-connected terminals on each side.
- Body: ABS Polymer (resists heat @ 90°C)
- Internal contact terminal: silver or gold plated silver alloy & nickel
- Resistance: <math><1\text{m}\Omega</math> @ 1KHz
- Back-plate: plastic stand

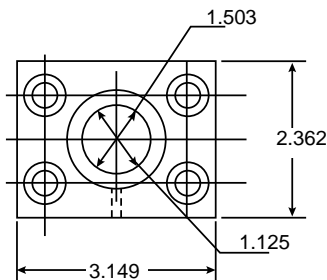
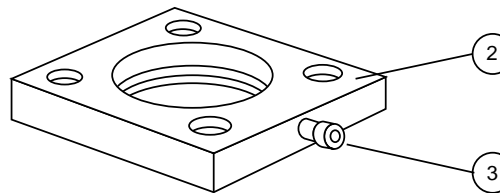
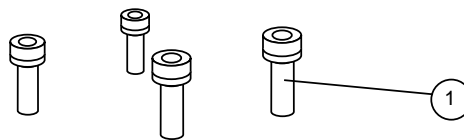
Mouser Stock No.	Base Socket	Bus Strip	Length (In.)	Width (In.)	Tie Points	5 Connected Terminals	25 Connected Buses	Binding Posts	IC Capacity 14 Pins	Weight (gm)
383-K158	2	3	7.598	6.772	1580	256	12	3	18	385
383-K242	3	4	7.559	10	2420	384	20	4	27	555
383-K326	4	5	9.724	10.748	3260	512	28	4	36	655

**Dimensions (In.)****Specifications:**

- Description: accommodates dies for 30-50mm punches
- Material: BMS
- Hardware included: locking screws & 4 press fixing screws



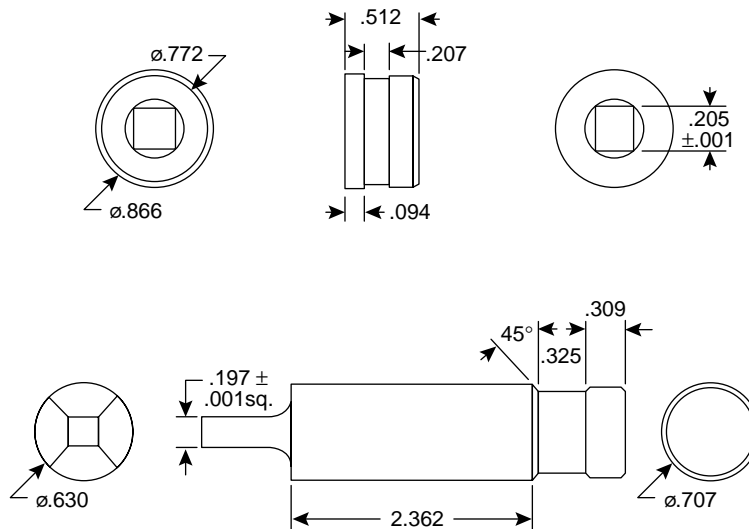
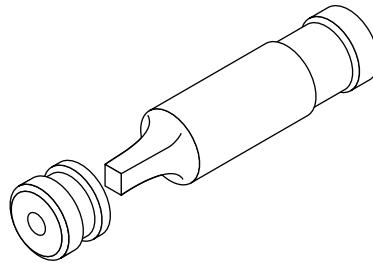
Dimensions (In.)



1. M8 x 1.25 socket head cap screws 16mm / .629" long
 2. Dieholder
 3. M4 x 0.7 socket head cap screw 16mm / .629" long
- Material: BMS

Mouser Stock No.	Description
381-7006	For use with round punches and dies 3mm-12mm: 1/8"-7/16"
38RA181	For use with 12.5mm to 27.5mm & 1/2" to 1" dies
38RA201	For use with rectangular punches and dies

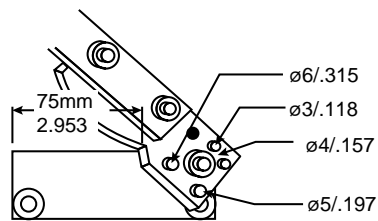
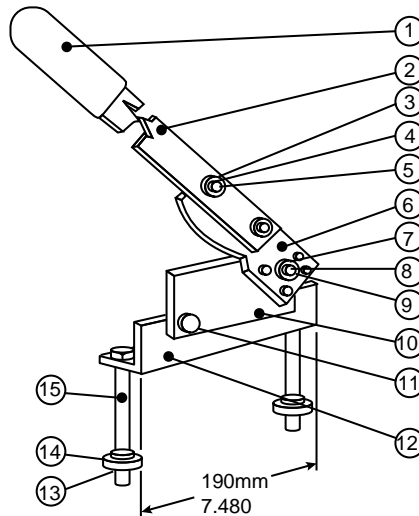
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Dimensions (In.)

Specifications:

- Material: tool steel B01
- Heat treated: 54-58RC
- Finish: ground
- Function: to rapidly nibble small .197" (5mm) square holes in fiberglass & S.R.P.B. boards, aluminum, & mild steel

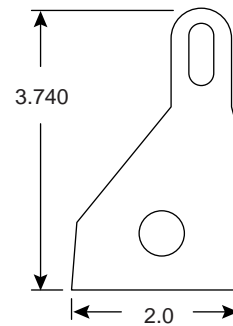
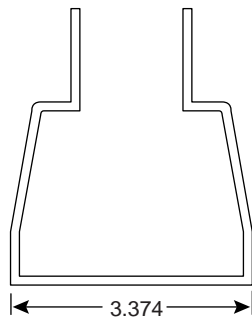
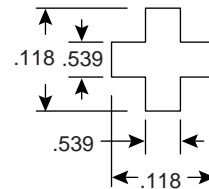
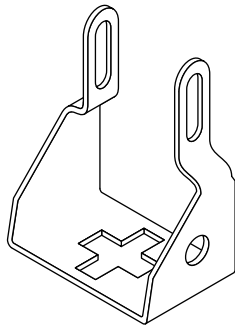


Dimensions mm / In.

1. Handle grip PVC yellow
2. Handle MS. black textured enamel
3. \varnothing 6mm / .236" washer MS.
4. M6x1 nut
5. M6x1 socket head cap screws } 2 off each, chemically blacked
6. Blade tool steel, heat treated and ground
7. \varnothing 8mm / .315" washer MS. chemically blacked
8. M8x1.25 self locking nut
9. M8x1.25 socket c'sunk screw 25mm / .984" long
10. Fixed blade tool steel heat treated and ground
11. M8x1.25 socket c'sunk screw 20mm / .787" long, 2 off
12. Foot 40x40x5mm / 1.575" x 1.575" x .197" angle MS. black texture enamel
13. M10x15 nut, 2 off
14. \varnothing 10mm / .394" washer, 4 off
15. M10x1.5 hexagon head set screws 100mm / 3.937" long, 2 off } chemically blacked

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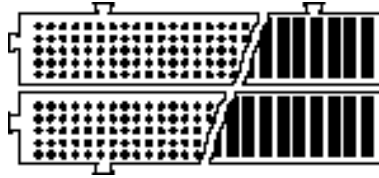
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Dimensions (In.)

Specifications:

- Type: heavy duty (compatible with 3,000 lb. press only)
- Stripper: 3.17mm mild steel
- Finish: black
- Hardware: two M-6x1 socket head cap screws, two 6mm washers

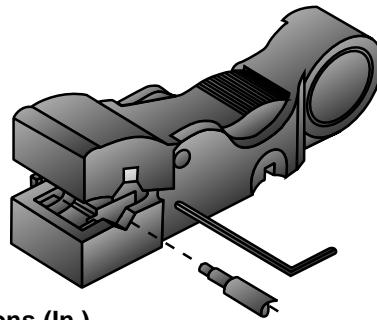


Material Specifications:

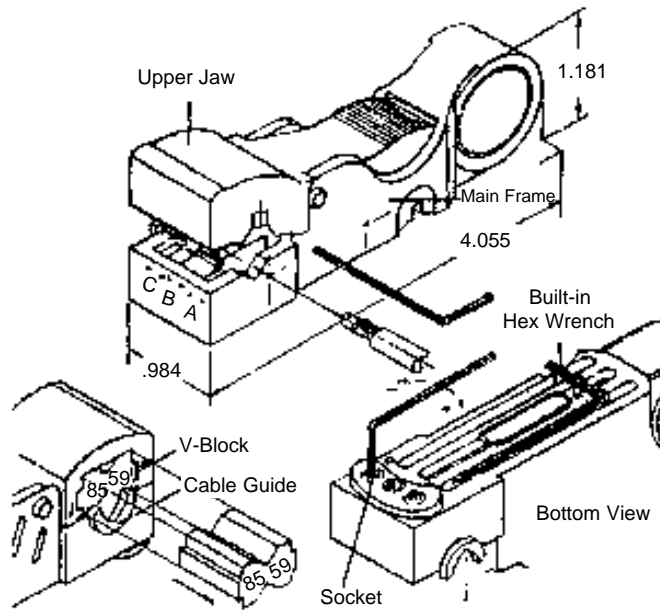
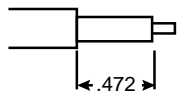
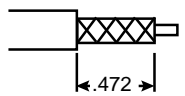
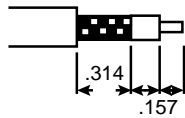
- External body is made of ABS Polymer resisting heat 90°C
- Internal contact terminal is made of alloy of silver and nickel and then it is plated silver or gold. The resistance is under 1 mΩ at 1 KHZ
- Base socket: Twin columns are apated by 7.62mm center channel.
- Bus strip of KH series: 2 buses of 25 connected terminals are distributed to be twin rows.

Model	Length (m/m)	Width (m/m)	Height (m/m)	Tie Points	5 Connected Term	IC Capacity 14 Pnin	Wieght (gm)
KH-100	80	36	10	290	58	4	25

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Dimensions (In.)

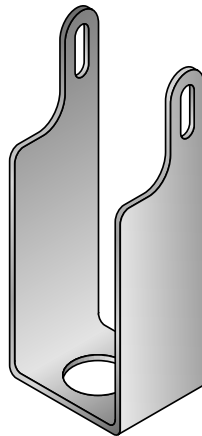


Material Specifications:

- Body made of polyacepal resin. Blades are high carbon steel and heat treatment.
- 3 Steps: Pre-set blades A: For inner insulated
B and C: for jacket

Mouser Stock No.	Description
382-312A	Pre-set for stripping RG 59/92/6
382-312B	Pre-set for stripping RG 58/59

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Specifications:

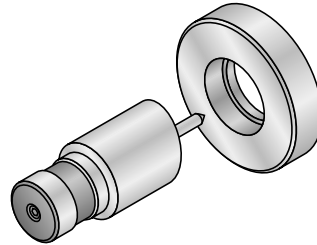
- "U" shaped strippers are used to separate the workpiece from the punch after operation. Allows continuous punching without resetting.
- 38RA402: max. dia. 16.5mm / .649" aperture stripper
- 381-7003: max. dia. 22.5mm / .885" aperture stripper

Compatible with 3,000 lb. press only

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Specifications:

- Requires adaptor 381-5001 for 5,000 lb. manupress
- Finest quality tempered tool steel
- 4 larger sizes dedicated to the 5,000 lb. manupress. Each has a retractable spring-loaded center pin included into the design for accurate hole alignment.

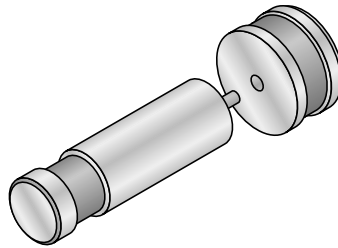
Metric (5,000 lb. Press Only)

Mouser Stock No.	Size dia. (mm)
381-5020	30
381-5021	35
381-5022	40
381-5023	50

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Specifications:

- Compatible with both 3,000 and 5,000 lb. presses (Requires adaptor 381-5001 for 5,000 lb. manupress)
- Finest quality tempered tool steel
- Each punch and die has a center location point for accurate alignment of the workpiece.
- Larger punches (12.56 to 27.5mm) have a retractable spring loaded center pin, which is removable for re-grinding.
- Use with die holder 381-7006

Metric

Mouser Stock No.	Size dia. (mm)
38RA131	3
38RA132	3.5
38RA133	4
38RA134	4.5
38RA135	5
38RA136	5.5
38RA137	6
38RA138	7
38RA139	8
38RA140	9
38RA141	10
38RA142	11
38RA143	12

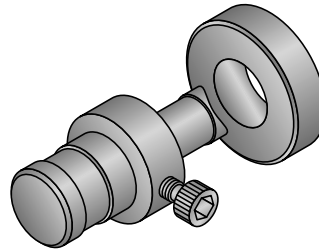
Imperial

Mouser Stock No.	Size dia. (mm)
38RA261	1/8
38RA262	3/16
38RA263	1/4
38RA264	5/16
38RA265	3/8

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Specifications:

- Compatible with both 3,000 and 5,000 lb. presses (Requires adaptor 381-5001 for 5,000 lb. manupress)
- Finest quality tempered tool steel
- A range of large punches and dies produced in case hardened steel.
- This range of tools can be operated without the use of a stripper and the punch can be released through the workpiece and then re-fitted for the next operation.
- Use with die holder 38RA181

Metric

Mouser Stock No.	Size dia. (mm)
38RA171	12.5
38RA172	14.5
38RA173	16.5
38RA174	20
38RA175	22.5
38RA176	25
38RA177	27.5

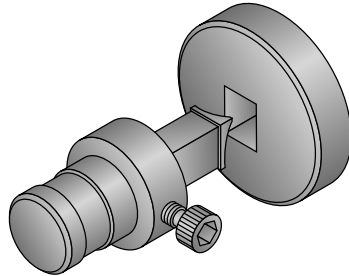
Imperial

Mouser Stock No.	Size dia. (mm)
38RA281	1/2
38RA282	5/8
38RA283	3/4
38RA284	7/8
38RA285	1

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Specifications:

- Compatible with both 3,000 and 5,000 lb. presses (Requires adaptor 381-5001 for 5,000 lb. manupress)
- The range can be utilized without the necessity of a stripper.

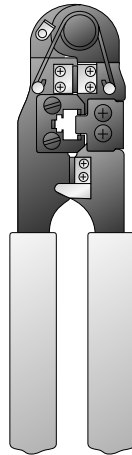
Use with die holder 38RA201

Mouser Stock No.	Size (mm)
38RA202	13.7 x 11.1
38RA203	15.9 x 13.0
38RA204	28.2 x 22.5
38RA205	28.4 x 11.4
38RA206	28.0 x 21.0
38RA207	29.4 x 22.0

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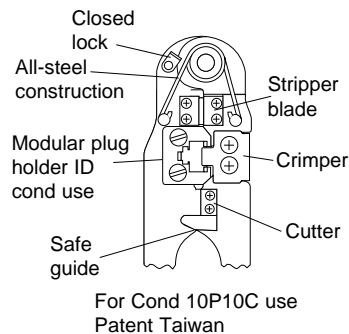
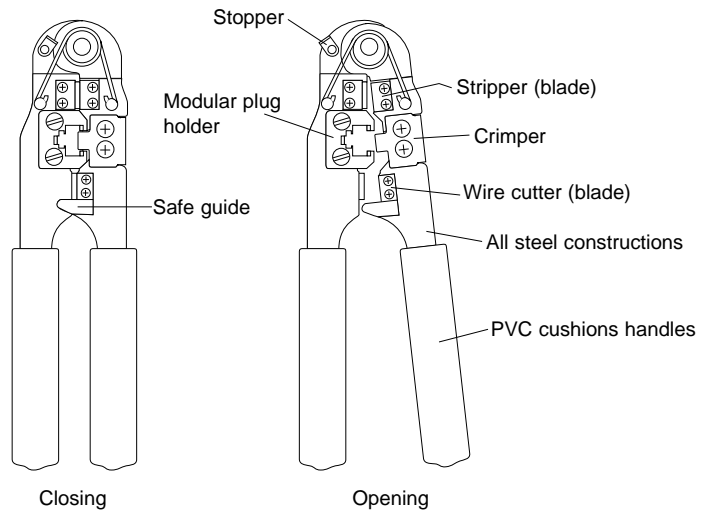
3 in 1 tool: cuts, crimps, and strips

Specifications:

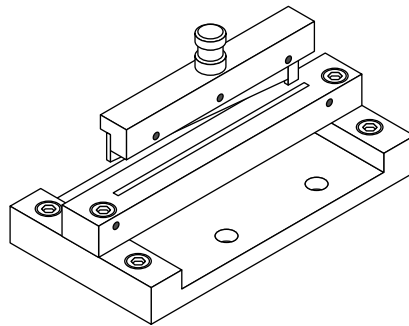
- Size: 8" (203±3mm)
- Frame: 3.2±.1mm
- Low carbon steel
- Heat treatment: HR30N 60-75
- Finish: black oxide
- Holder: polyacepal resin

Instructions:

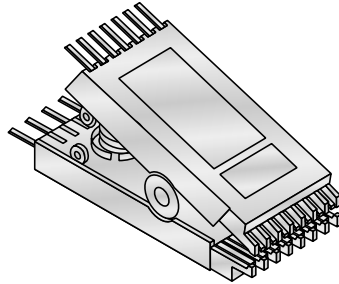
1. Cut the modular cable to the desired length. Make certain that the ends are cut squarely, not diagonally.
2. Insert the cable between the stripper blades until it touches the stop. Squeeze the handles and pull the tool so that the cable stays perpendicular to it. If done correctly the outer insulation of the cable will be removed without damaging the insulation on the inner conductors.
3. Place a modular plug in the holder so that the front of the plug is against the stop and the gold contact face the crimper. Insert the prepared cable into the plug. Make certain that the inner conductors are flush with the tip of the connector and directly under the gold contacts. Squeeze the handles firmly to set the contacts and secure the cable, thus completing the operation.



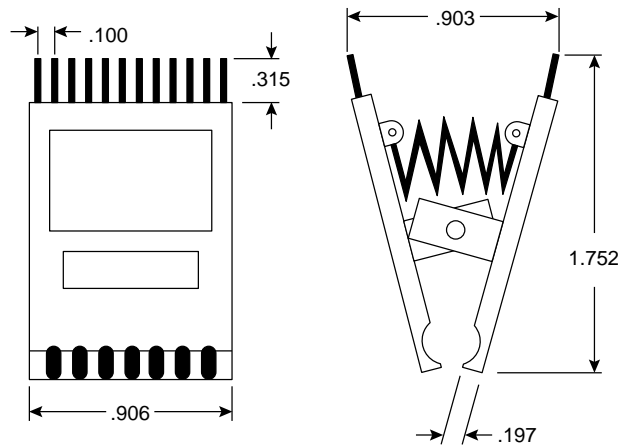
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**Specifications:**

- Type: accessory for the 5,000 lb. press
- Blade cutting length/width: 5.24"/.118"
- Features: ideal for slitting to accurate measurements without material distortion
- Cutting capacity: .079" fiberglass, .126" SRBP boards, .063" mild steel, .096" aluminum



Dimensions (In.)



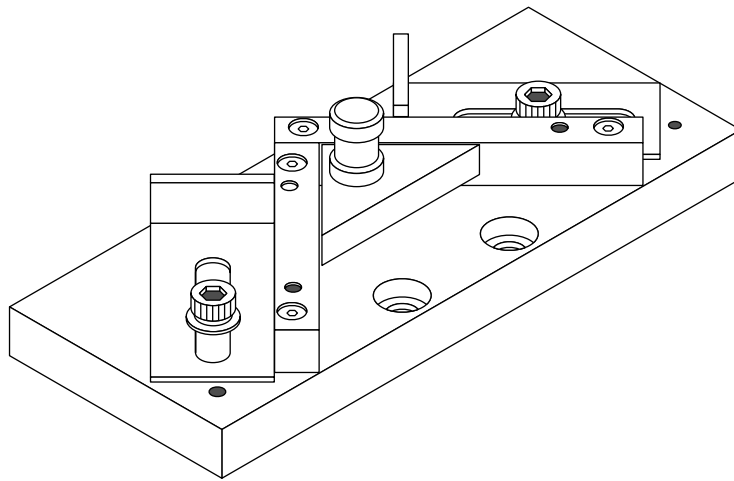
Specifications:

- Row to row: .3 inches
- Number of pin: 16
- Weight: 25
- Body material: ABS polymer
- Contact pin material: phosphorus bronze and gold plated
- Resistance (pin top to end): <math>< 1\text{m}\Omega</math> (@ 1KHz)
- Capacitance (pin to pin): <math>< 1\text{pF}</math> (@ 1KHz)

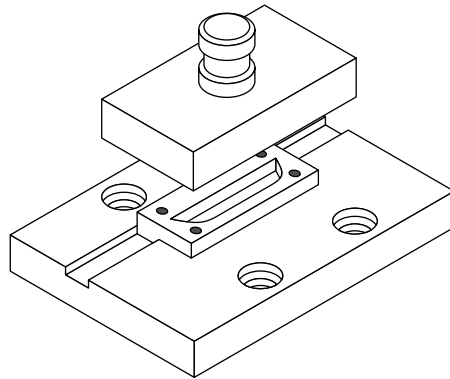
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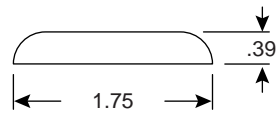
<http://www.mouser.com>



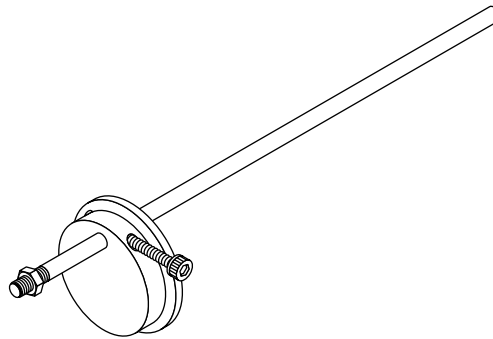
For use with the 3,000lb. press. This tool is used for precise 90° angles. It is particularly useful for box making. A base plate fitted with adjustable stops enables corner notches to be accurately repeated. The maximum cutting capacity is; aluminum 2.5mm & 1.6mm mild steel.



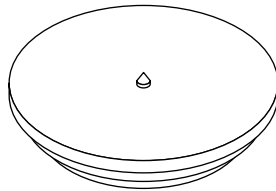
Dimensions (In.)



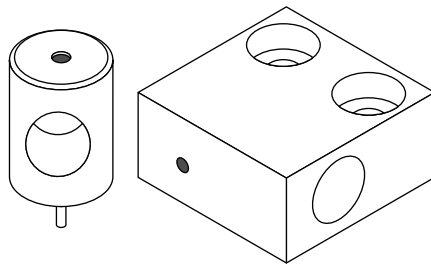
Used to form "feet" on the underside of enclosures.
Size of foot depends on material thickness.
Use with Die Holder 38RA201



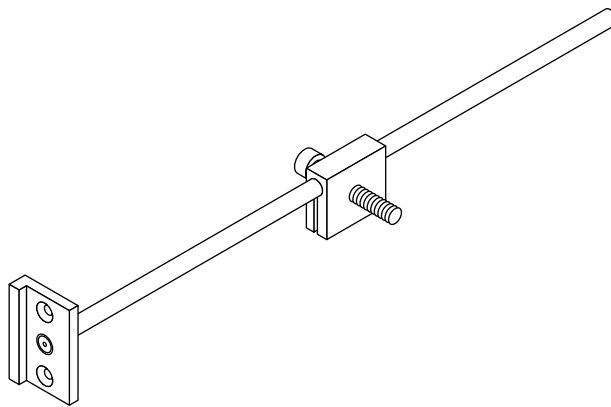
Fits either side of the press for both vertical & horizontal adjustment. Maximum adjustment from ram center is 1.62" to 8.67". Maximum vertical adjustment is .79". For use with the 3,000lb. press.



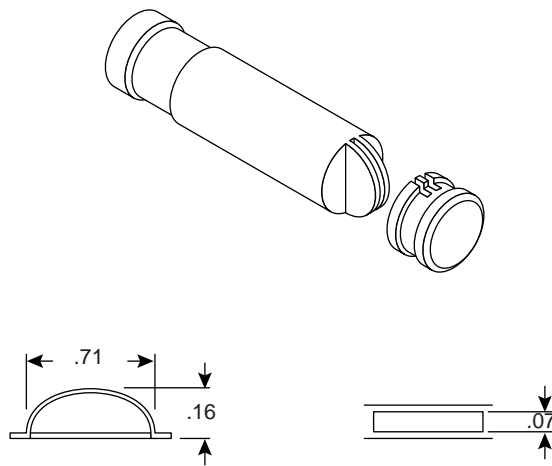
For making side & back stop references fit into the center hole of the press. Can be used with both presses.



Enables the shear & cropping tool 38RA525 to cut circles in sheets from 2.76" to 19.69" radiuses.

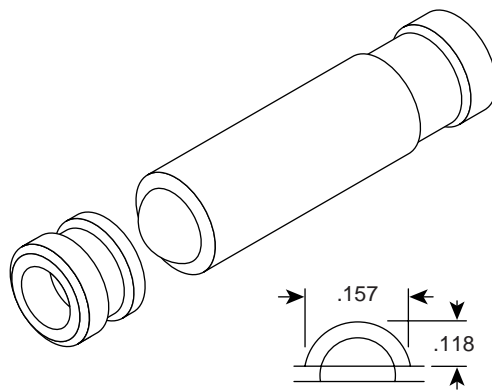


Used to support sheet material. Maximum adjustment from ram center is 5.9". The attachment enables the press to have a repeatable depth reference.



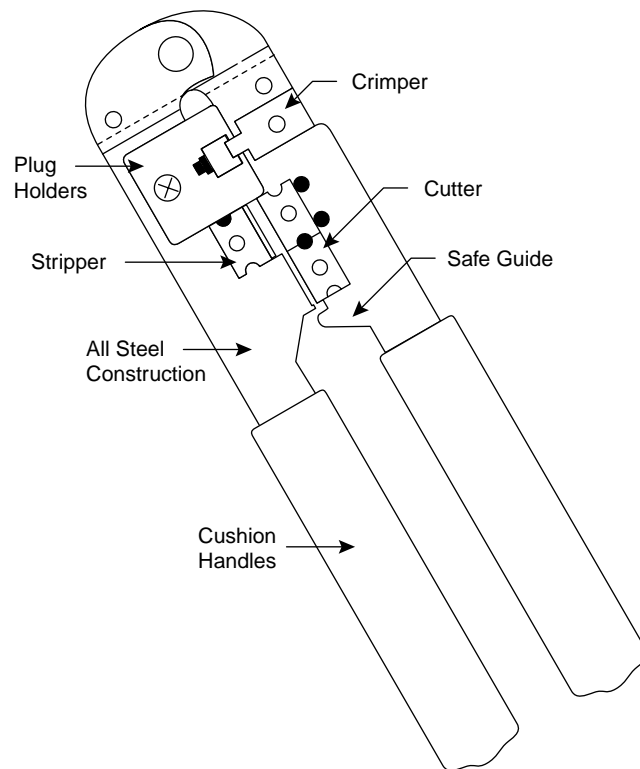
Dimensions (In.)

Forms looped lugs that are ideal for use as slides or for fixing panels & printed circuit boards.

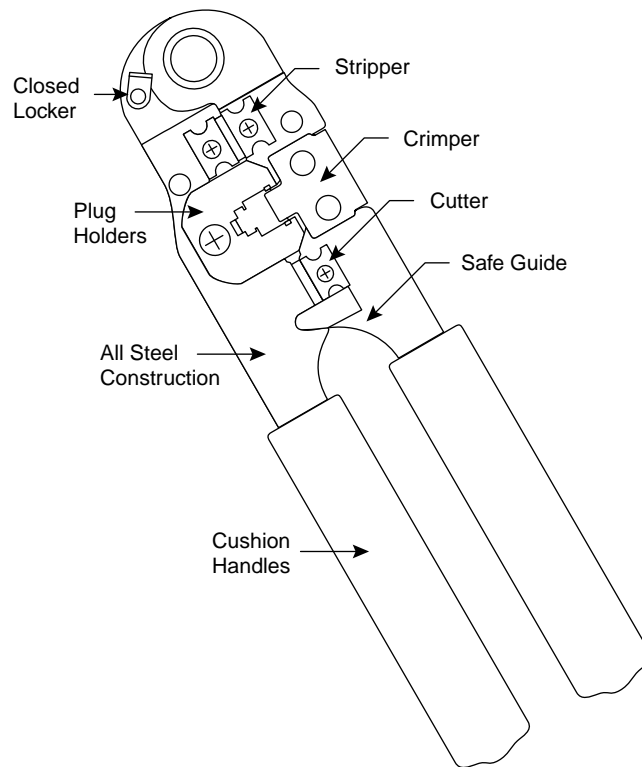


Dimensions (In.)

Used to form "feet" on the underside of enclosures.
Size of foot depends on material thickness.
Use with Die Holder 38RA201

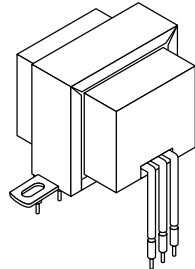
**Specifications:**

- Type: modified
- Length: 7.3"
- Material: .126" low carbon steel
- Hardness: HR30N 65~75
- Frame: black oxide finished
- Replacement blades: cutter & stripper, HT-20961

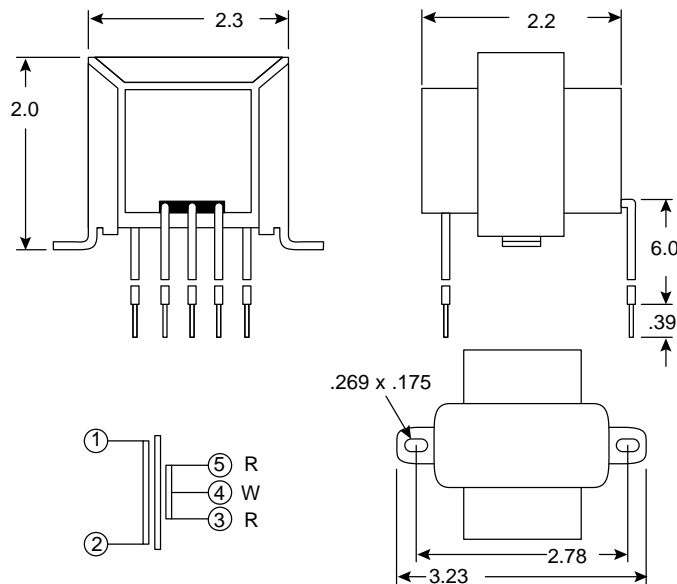
**Specifications:**

- Type: deluxe
- Length: 7 1/4"
- Material: .126" low carbon steel
- Hardness: HR30N 65~75
- Frame: black oxide finished
- Replacement blades: cutter & stripper, HT-20961

HiQ™



Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 75mA (max.)
- Secondary voltage (full load): 25.2CT VAC @ 5%
- Rated secondary current: 1A (AC) 60Hz
- Temperature rise: < 70°C
- Breakdown voltage (Hi-pot): 1500VAC @ 60Hz for 1 minute
- Coil to coil insulation: 100MΩ @ 500VDC
- Core size: EI-57
- Lead wire strength: 2.5kg for 15 seconds
- Lead color coding: pri.=black, sec.=red/white

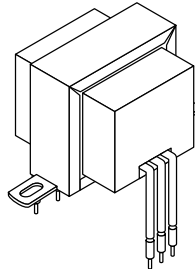


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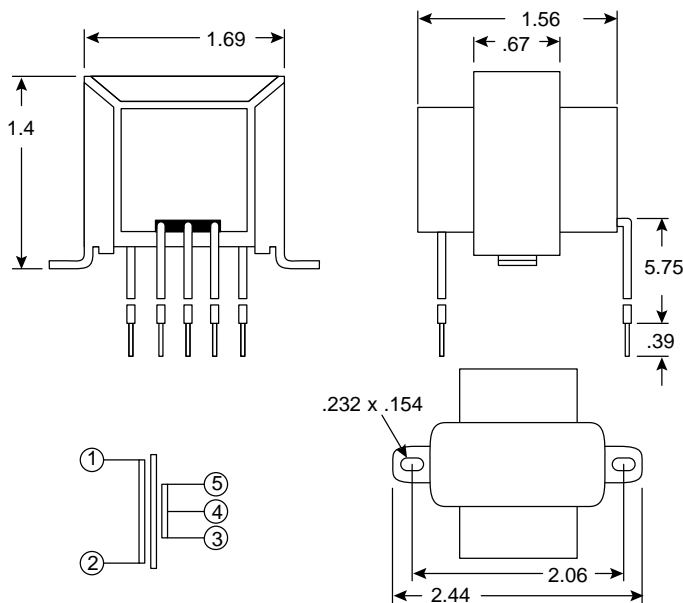
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HiQ™



Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 65mA (max.)
- Secondary voltage (full load): 25.2CT VAC @ 5%
- Rated secondary current: 0.1A (AC) 60Hz
- Temperature rise: < 65°C
- Breakdown voltage (Hi-pot): 1500VAC @ 60Hz for 1 minute
- Coil to coil insulation: 100MΩ @ 500VDC
- Core size: EI-41
- Lead wire strength: 2.5kg for 15 seconds
- Lead color coding: pri.=black, sec.=red/white

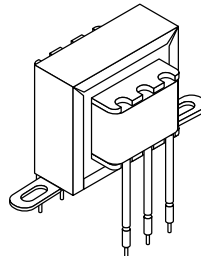


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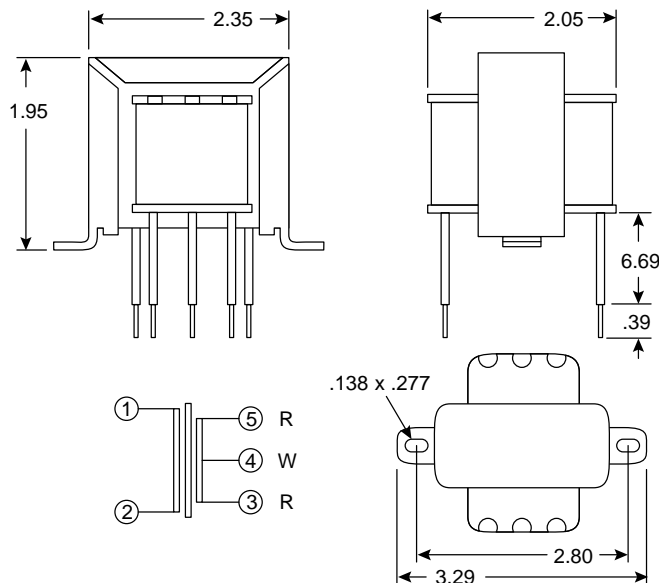
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Dimensions (In.)



Specifications:

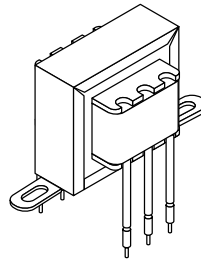
- Primary voltage: 115VAC 60Hz
- Primary exciting current: 90mA (max.)
- Secondary voltage (no load): 26.8CT VAC±0.8V%
- Secondary voltage (full load): 24.0CT VAC±0.8V%
- Rated secondary current: 1.0A (AC) 60Hz
- Voltage regulation: < 15% (VNL-VFL)/(VFL)x100
- Temperature rise (@ room temp. 25°C): < 70°C
- Breakdown voltage (HiPOT): 2000VAC 60Hz for 1 minute
- Coil to coil insulation: 200MΩ (min.) 500VDC
- Strain relief: 10 lbs
- Tinned lead length: 10mm
- Crossover insulation: 0.05mm polyester tape

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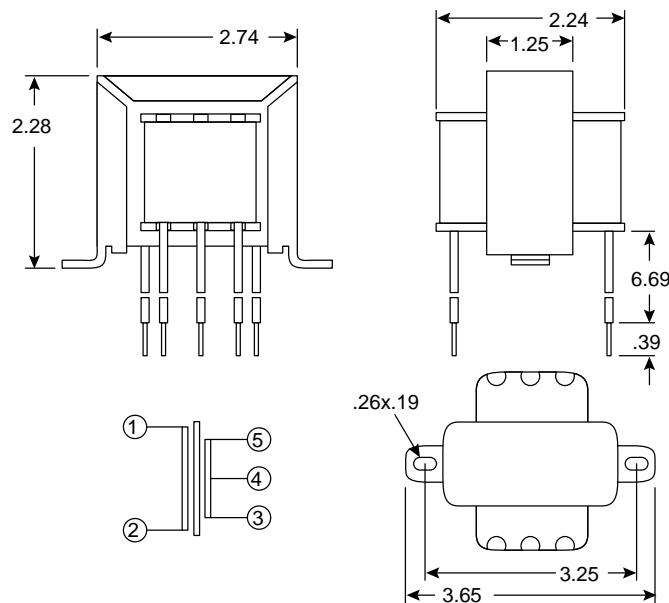
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Dimensions (In.)



Specifications:

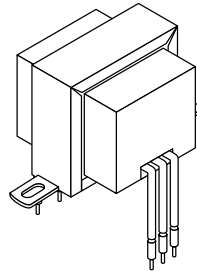
- Primary voltage: 115VAC 60Hz
- Primary exciting current: 100mA (max.)
- Secondary voltage (no load): 20.6CT VAC \pm 0.8V%
- Secondary voltage (full load): 18.0CT VAC \pm 0.8V%
- Rated secondary current: 2.0 Amperes (AC) 60Hz
- Voltage regulation: less than 15% (VNL-VFL)/(VFL)x100
- Temperature rise (@ room temp. 25°C): less than 95°C
- Breakdown voltage (HiPOT): 2000VAC 50Hz, 1minute
- Coil to coil insulation: 100M Ω (min.) 500VDC
- Strain relief: 10 lbs.
- Channel frame material & thickness: iron 0.4"
- Crossover insulation: .002" polyester tape
- Primary winding: SWG28
- Secondary winding: SWG22+28
- Core size: EI-66
- Core material: hilite core H-23 .02"
- Inner insulation: 3 layers of .002" polyester tape
- Outer wrap insulation: 3 layers of 0.05mm polyester tape w/1 pc. of fibre board (yellow)
- Bobbin: nylon, normal type .87" x 1.8"
- Impregnation: varnish
- Lead wire: Pri. UL-1015 AWG22, Sec. UL-1015 AWG18 or AWG22

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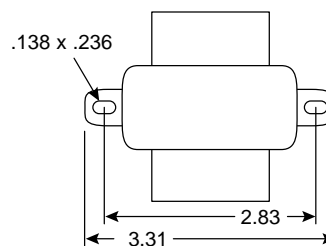
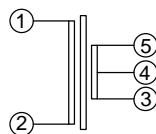
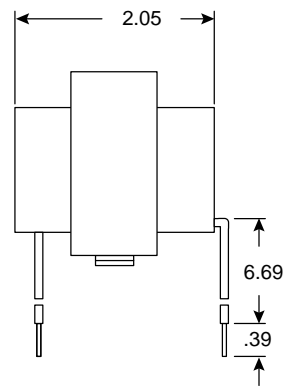
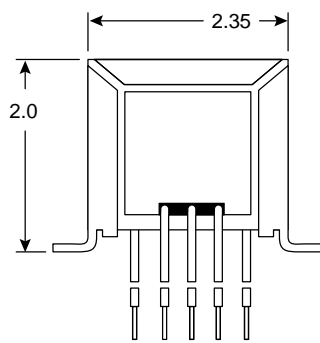
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Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 100mA (max.)
- Secondary voltage (no load): 14.5VCT (max.)
- Secondary voltage (full load): 12.6VCT (min.)
- Rated secondary current: 2.0A (AC) 60Hz
- Voltage regulation: $<15\% (VNL-VFL)/(VFL) \times 100$
- Temperature rise (@ room temp. 25°C): $<40^{\circ}\text{C}$
- Breakdown voltage (HiPOT): 1500VAC 60Hz for 1 minute
- Coil-coil insulation: 100M Ω (min.) 500VDC
- Core size/type: EI-57

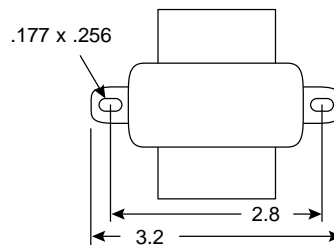
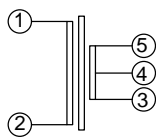
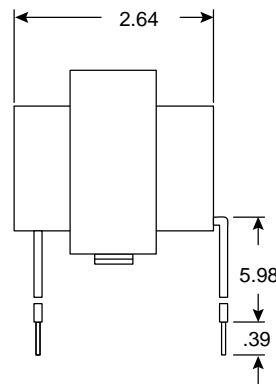
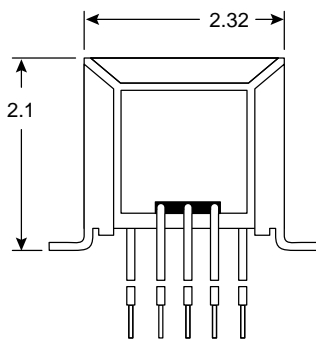
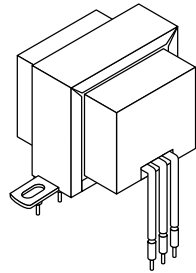
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Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Secondary voltage: 10CT VAC, 1A
- Voltage regulation: less than 15%
- Primary no load current: <110mA @115V, 60Hz
- Hi-pot test voltage: 1500VAC 60Hz for 1minute
- Coil~coil insulation: 200MΩ @ 500VDC
- Strain relief: 15kg, 15 seconds
- Core size: EI-57
- Impregnation: varnish
- Lead color code: primary-black, secondary-red/white



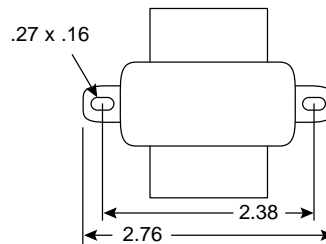
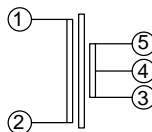
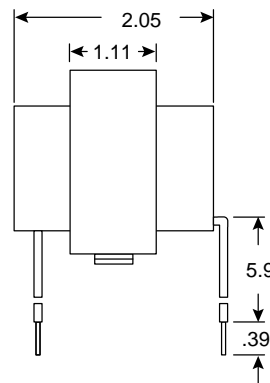
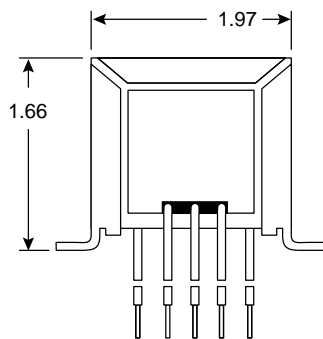
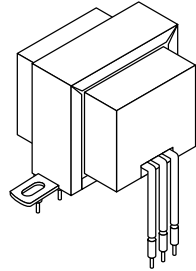
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Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 60mA (max.)
- Secondary voltage (no load): 14.5CT VAC \pm 5%
- Secondary voltage (full load): 12.6CT VAC \pm 5%
- Rated secondary current: 1A (AC) 60Hz
- Breakdown voltage (Hi-pot): 1500VAC @ 60Hz for 1 minute
- Temperature rise: 70°C
- Coil~coil insulation: 100M Ω @ 500VDC
- Crossover insulation: .002" polyester tape
- Core size: EI-48
- Inner insulation: 3 layers .002" polyester tape w/1 pc. of fibre board
- Bobbin: nylon, normal type 0.63" x 0.85"
- Impregnation: varnish
- Lead color coding: primary (black)
secondary (red/white)



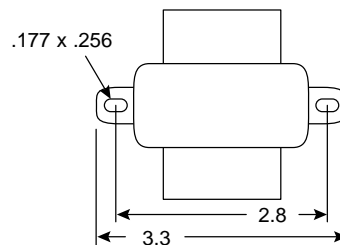
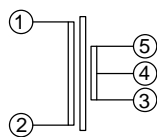
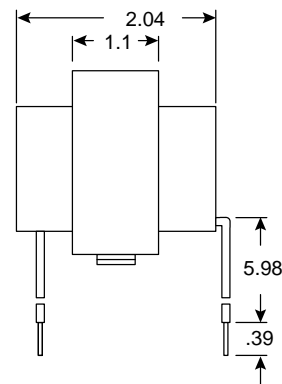
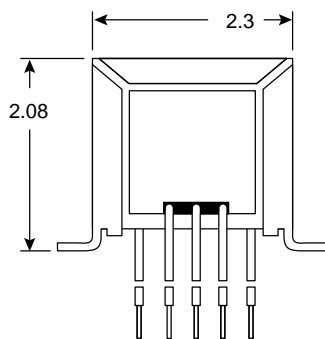
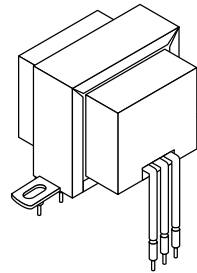
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Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 100mA (max.)
- Secondary voltage (full load): 12.6CT VAC @15%
- Rated secondary current: 2A (AC) 60Hz
- Temperature rise: <40°C
- Breakdown voltage (Hi-pot): 1500VAC @ 60Hz for 1minute
- Coil to coil insulation: 100MΩ @ 500VDC
- Crossover insulation: .002" polyester tape
- Lead wire strength: 2kg, 10 seconds
- Lead color coding: primary-black
secondary-red/white

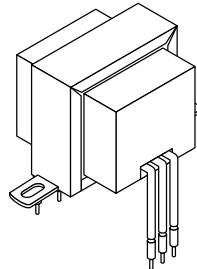


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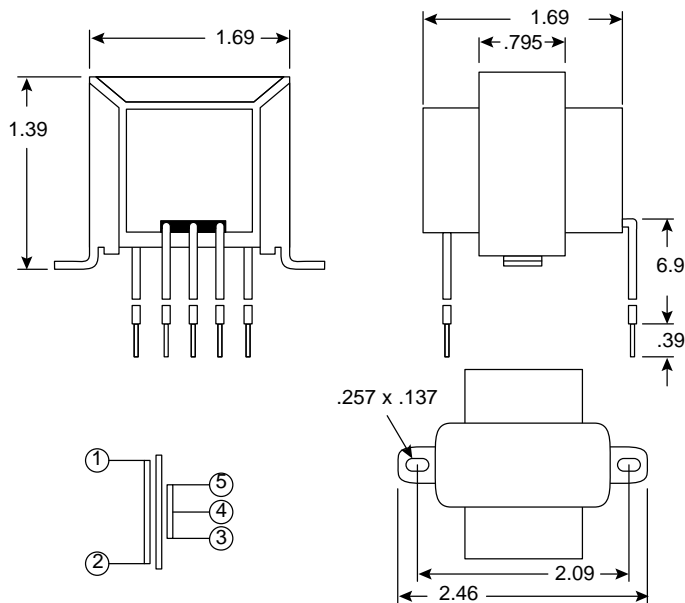
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Dimensions (In.)



Specifications:

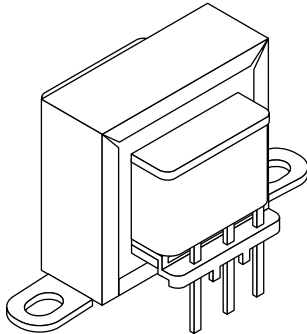
- Primary voltage: 115VAC 60Hz
- Primary exciting current: 65mA (max.)
- Secondary voltage (full load): 25.0CT VAC @ 2%
- Rated secondary current: 2A (AC) 60Hz
- Temperature rise: < 65°C
- Breakdown voltage (Hi-pot): 1500VAC @ 60Hz for 1 minute
- Coil to coil insulation: 100MΩ @ 500VDC
- Core size: EI-41
- Lead wires: pri.= UL 1015 22AWG, sec.= UL 1007 22AWG
- Lead color coding: pri.=black, sec.=red/white



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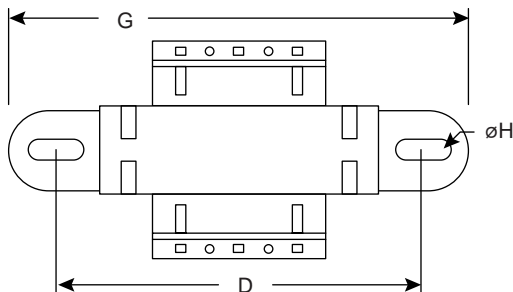
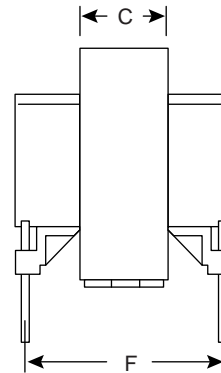
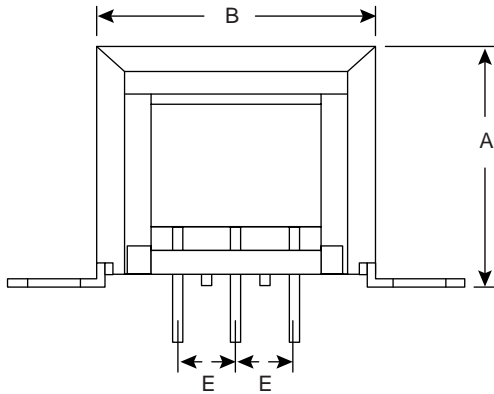
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Specifications:

- Type: plug in
- Primary voltage: 115VAC, 60Hz
- Excitation current: 100mA
- Hi-pot test: 1500V for 1 minute (pri./sec. & core), 500V for 1 minute (sec./sec. & core)
- Breakdown voltage: 440V, 400Hz
- Insulation resistance: >5MΩ

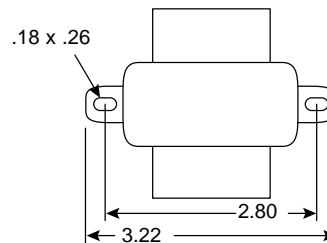
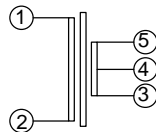
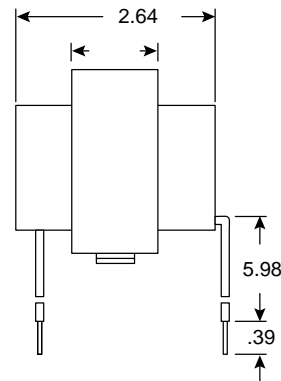
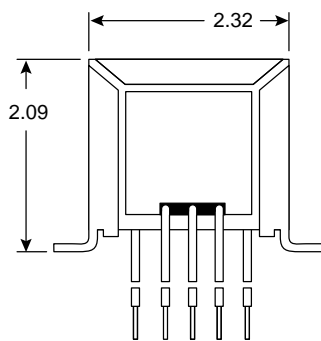
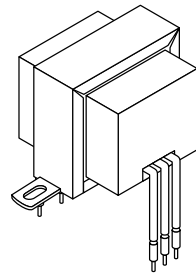


Schematic

Mouser Stock No.	Core Size	Secondary		Dimensions (In.)							
		Volts	Amps	A	B	C	D	E	F	G	øH
41WG100	EI-35	12.6CT	.1	1.24	1.5	.53	1.8	.30	.96	2.05	.20 x .13
41WG010	EI-48	12.6CT	1.0	1.67	2.0	.71	2.35	.40	1.22	2.80	.22 x .15
41WJ300	EI-41	18.0CT	.3	1.50	1.7	.81	2.05	.40	1.12	---	.16 x .24
41WK200	EI-41	24.0CT	.2	1.40	1.7	.59	2.05	.39	1.02	2.44	.20 x .16

HiQ[™]

Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 90mA (max.)
- Secondary voltage (no load): 20.8CT VAC \pm 5%
- Secondary voltage (full load): 18CT VAC \pm 15%
- Rated secondary current: 1.5 Amperes (AC) 60Hz
- Temperature rise: 75°C
- Breakdown voltage (Hi-pot): 1.5KVAC @ 60Hz for 1 minute
- Coil-coil insulation: >200M Ω @ 500VDC
- Crossover insulation: .007" acetate tape
- Core size: EI-57
- Bobbin: nylon, normal type
- Impregnation: varnish
- Lead color coding: primary-black, secondary-red/white



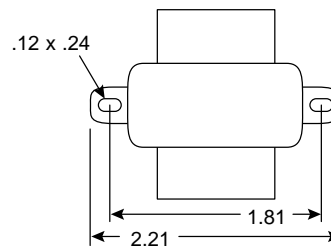
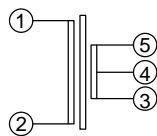
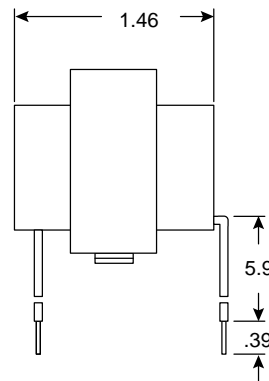
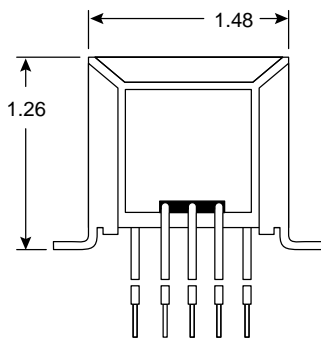
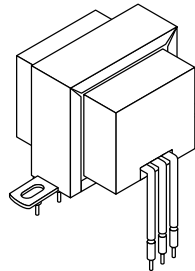
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Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Secondary voltage: 10CT VAC
- Rated secondary current: 1A (AC)
- Voltage regulation: <15%
- No load voltage: 11.15
- Primary no load current: <60mA @115V, 60Hz

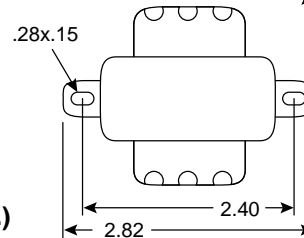
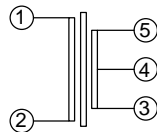
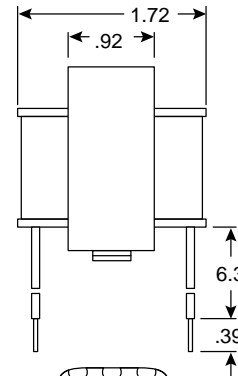
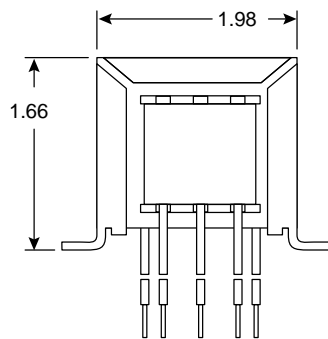
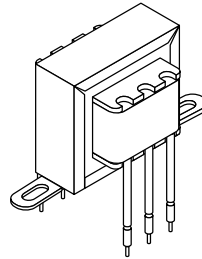


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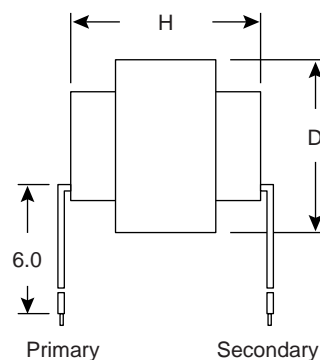
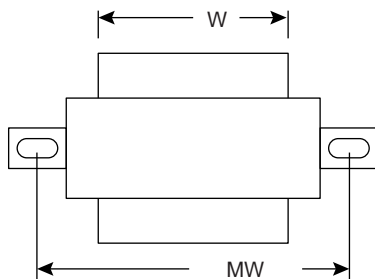
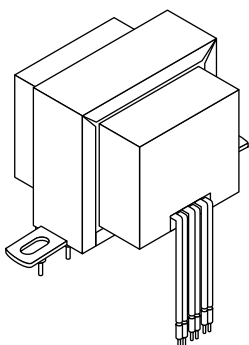
Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 65mA (max.)
- Secondary voltage (no load): 14.85CT VAC±0.6V%
- Secondary voltage (full load): 12.6CT VAC±0.6V%
- Rated secondary current: 1.0 Amperes (AC) 60Hz
- Temperature rise: 70°C
- Breakdown voltage (HiPOT): 2000VAC 50Hz, 1minute
- Coil to coil insulation: 200MΩ (min.) 500VDC
- Crossover insulation: 0.002" polyester tape
- Core size: EI-48
- Core material: hilite core H-23 0.02"
- Inner insulation: 3 layers of 0.002" polyester tape
- Outer wrap insulation: 3 layers of 0.002" polyester tape with 1 pc. of fiber board
- Polyester tape: from Pantech catalog no. 13, UL E117836(S)
- Bobbin: nylon 66, type 101 from Dupont UL E41938(M)
- Impregnation: varnish

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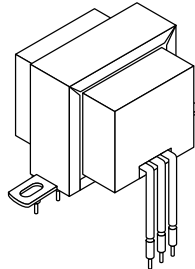


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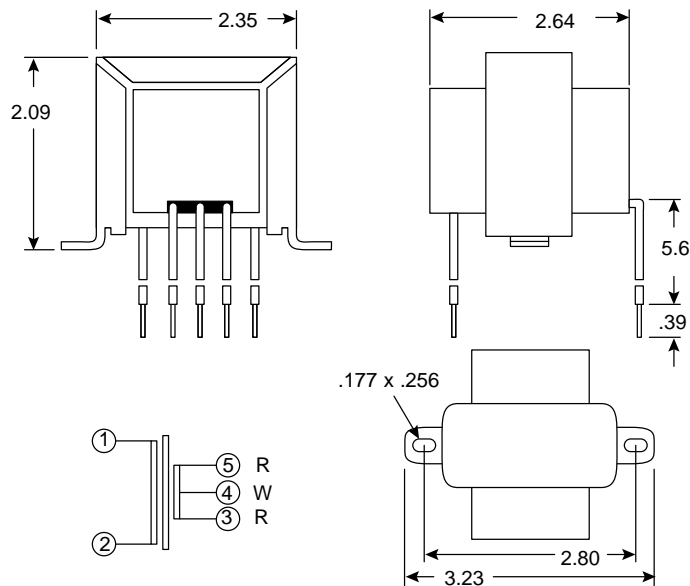
- Type: dual secondary power transformer
- Voltage regulation: < 15%
- Full load voltage: $\pm 2\%$
- Coil-to-coil insulation: 200M Ω @ 500VDC
- Hi-pot test voltage: 1500VAC 60Hz for 1 minute
- Core: silicon steel
- Bobbin: nylon
- Lead color coding: 22AWG; primary=black/black, secondary=red/white/red, green/black/green

Mouser Stock No.	Core Type	Secondary		Max. Volts No Load	Primary Exciting Current	Dimensions (In.)			
		Volts	Amps			H	W	D	MW
41HG100	EI-41	12.6CT/12.6CT	0.1	14.49	40mA	1.40	1.69	1.57	2.03
41HG010	EI-57	12.6CT/12.6CT	1.0	14.49	80mA	2.00	2.35	2.30	2.81
41HK200	EI-48	24.0CT/24.0CT	0.2	27.60	70mA	1.69	1.97	1.84	2.35
41HK010	EI-66	24.0CT/24.0CT	1.0	27.60	110mA	2.25	2.72	2.82	3.15

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Dimensions (In.)



Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 120mA (max.)
- Secondary voltage (full load): 24CT VAC @ 5%
- Rated secondary current: 1.5A (AC) 60Hz
- Temperature rise: < 75°C
- Breakdown voltage (Hi-pot): 2.875KVAC @ 50/60Hz for 1minute
- Coil to coil insulation: 100MΩ @ 500VDC
- Crossover insulation: 0.05 polyester tape
- Core size: EI-57
- Impregnation: varnish
- Lead color coding: pri.=black, sec.=red/white



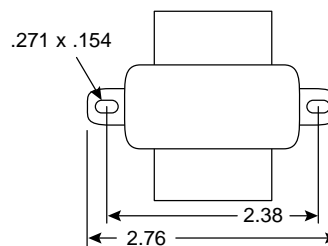
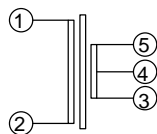
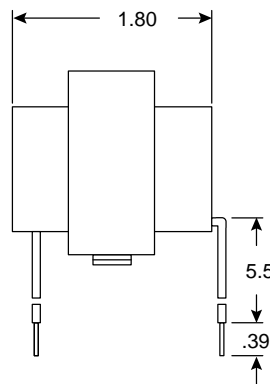
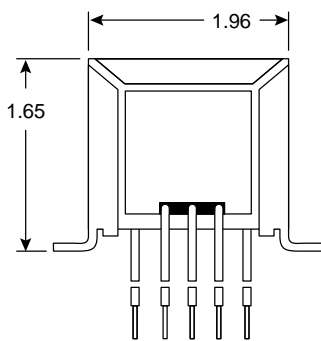
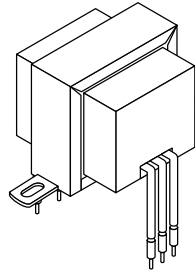
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Dimensions (In.)



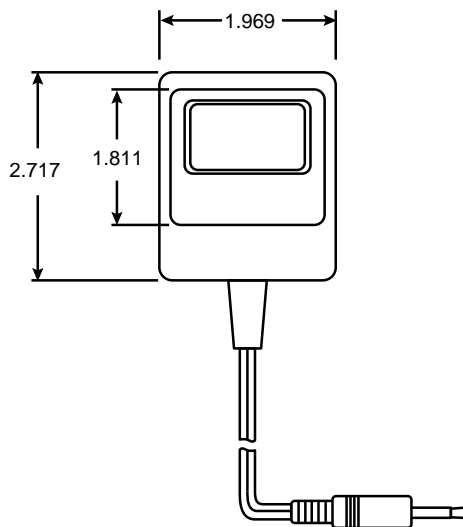
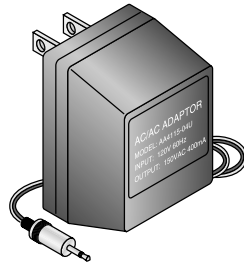
Specifications:

- Primary voltage: 115VAC 60Hz
- Primary exciting current: 60mA (max.)
- Secondary voltage (no load): 14.5CT VAC \pm 5V%
- Secondary voltage (full load): 6.3CT VAC \pm 5V%
- Rated secondary current: 1A (AC) 60Hz
- Voltage regulation: $<15\% (VNL-VFL)/(VFL) \times 100$
- Temperature rise (from rated load): $<65^{\circ}\text{C}$
- Breakdown voltage (HiPOT): 1500VAC 60Hz for 1 minute
- Coil-coil insulation: 100M Ω (min.) 500VDC

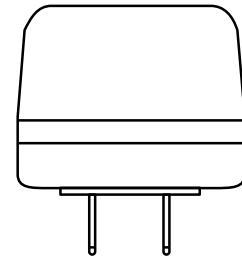
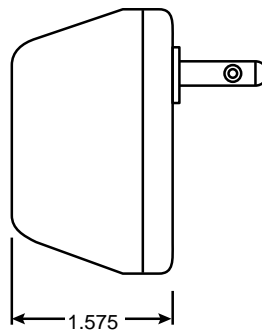
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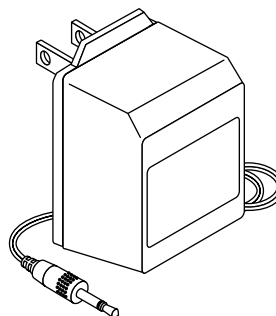
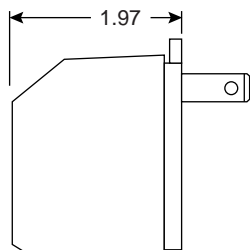
**Specifications:**

- Input: 120V 60Hz
- Output: 15VAC 400mA
- Primary voltage: 120VAC 60Hz
- Primary exciting current: 30mA max.
- Secondary unloaded voltage $\pm 5\%$: 19VAC
- Secondary loaded voltage $\pm 5\%$: 15VAC
- Secondary loaded current: 400mA
- Insulation resistance: primary-secondary 500VDC 100M Ω min.
primary-core 500VDC 100M Ω min.
- Dielectric strength: primary-secondary primary-core 1250VAC for 1 minute
secondary-core 500VAC for 1 minute
- Temperature rise: @ rated loading 65C max.
- Impregnation: varnish

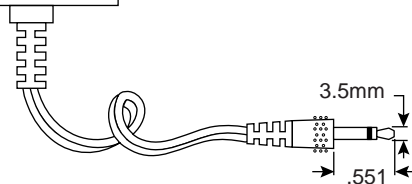
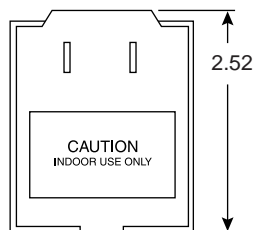
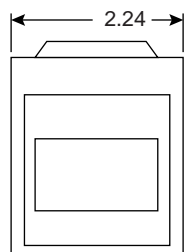
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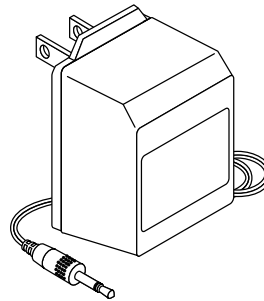
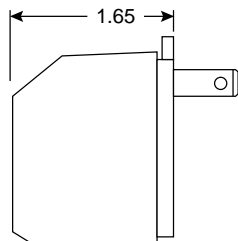


Dimensions (In.)
except where noted

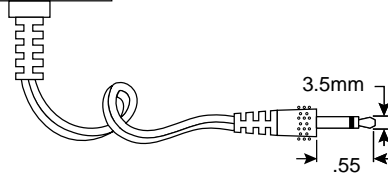
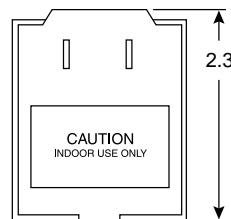
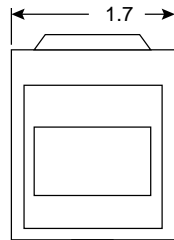


Specifications:

- Primary voltage: 120V 60Hz 30W
- Exciting current, open circuit: 230mA max.
- DC resistance $\pm 15\%$: 51Ω
- Secondary, no load voltage: 17.4VDC
- Loaded voltage: 12VDC @ 1000mA
- DC resistance $\pm 10\%$: $.80\Omega$
- Insulation resistance: $100M\Omega$ @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



Dimensions (In.)
except where noted



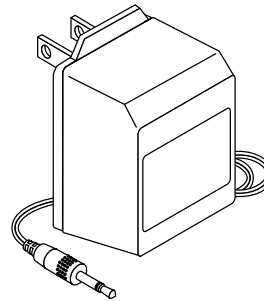
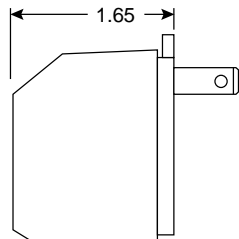
Specifications:

- Primary voltage: 120V 60Hz 3.5W
- Exciting current, open circuit: 50mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 7.8VDC
- Loaded voltage: 6VDC @ 100mA
- DC resistance $\pm 10\%$: 3.6 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

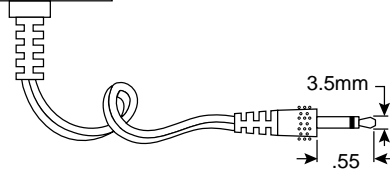
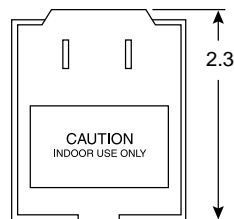
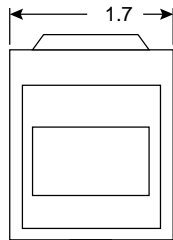
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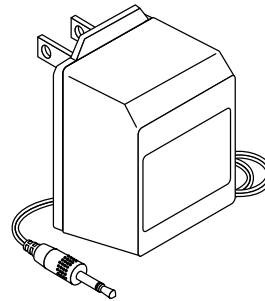
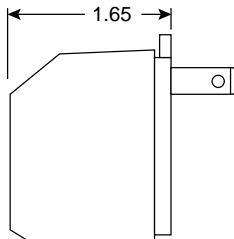
Specifications:

- Primary voltage: 120V 60Hz 4W
- Exciting current, open circuit: 60mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 8.7VDC
- Loaded voltage: 6VDC @ 200mA
- DC resistance $\pm 10\%$: 4.4 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

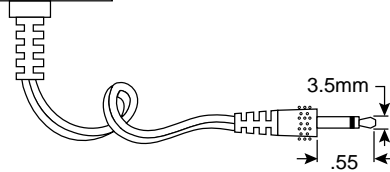
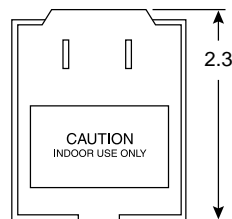
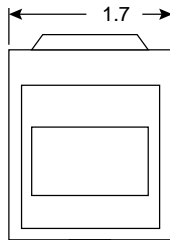
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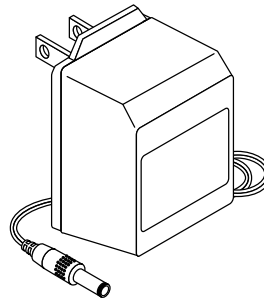
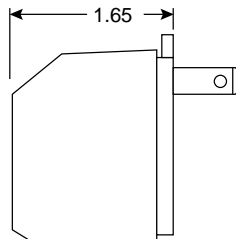
Specifications:

- Primary voltage: 120V 60Hz 4W
- Exciting current, open circuit: 60mA max.
- DC resistance $\pm 15\%$: 272Ω
- Secondary, no load voltage: 11.8VDC
- Loaded voltage: 9VDC @ 100mA
- DC resistance $\pm 10\%$: 4.3Ω
- Insulation resistance: $100M\Omega$ @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

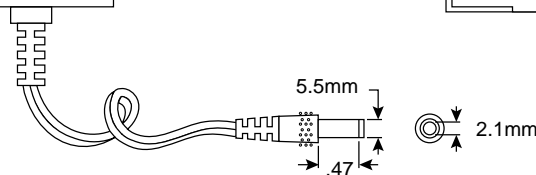
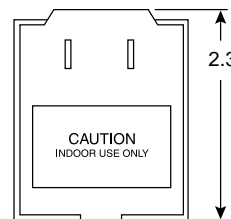
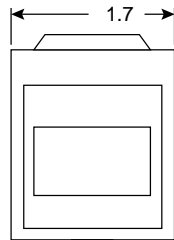
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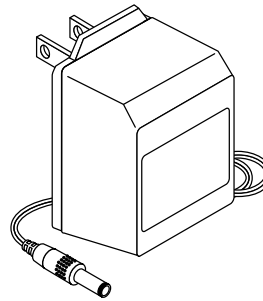
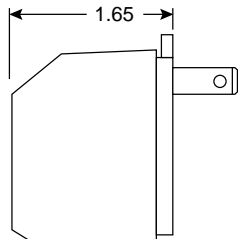
Specifications:

- Primary voltage: 120V 60Hz 4.5W
- Exciting current, open circuit: 80mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 13.2VDC
- Loaded voltage: 9VDC @ 200mA
- DC resistance $\pm 10\%$: 1.4 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

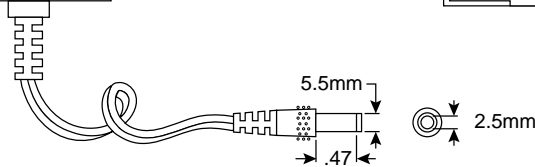
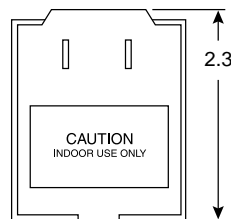
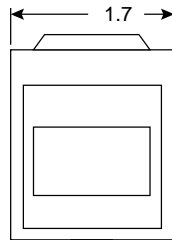
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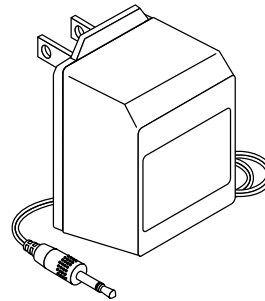
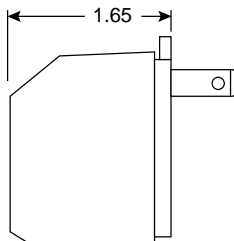
Specifications:

- Primary voltage: 120V 60Hz 6.75W
- Exciting current, open circuit: 85mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 17VDC
- Loaded voltage: 9VDC @ 300mA
- DC resistance $\pm 10\%$: 60 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

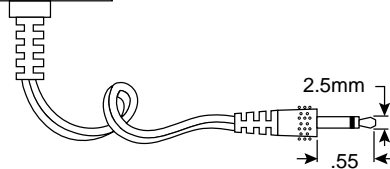
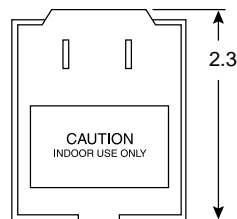
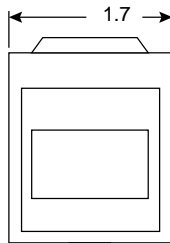
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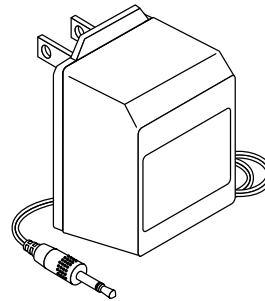
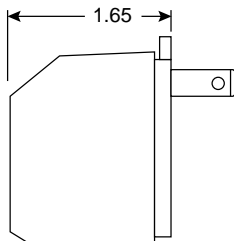
Specifications:

- Primary voltage: 120V 60Hz 4.5W
- Exciting current, open circuit: 60mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 14.8VDC
- Loaded voltage: 12VDC @ 100mA
- DC resistance $\pm 10\%$: 2.6 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

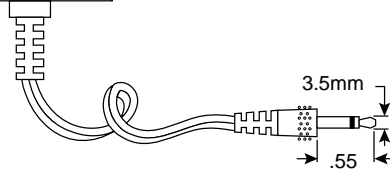
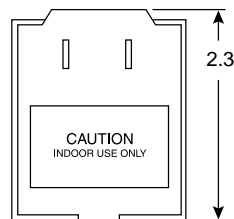
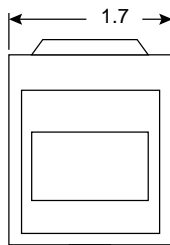
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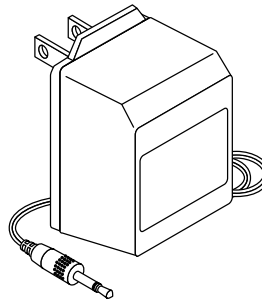
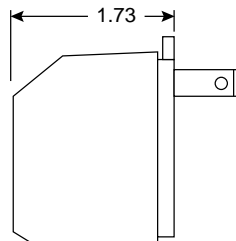
Specifications:

- Primary voltage: 120V 60Hz 6W
- Exciting current, open circuit: 60mA max.
- DC resistance $\pm 15\%$: 279 Ω
- Secondary, no load voltage: 19VDC
- Loaded voltage: 12VDC @ 200mA
- DC resistance $\pm 10\%$: 11.3 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

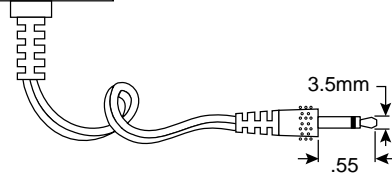
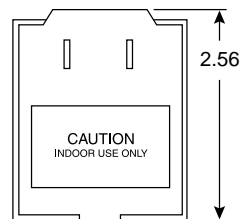
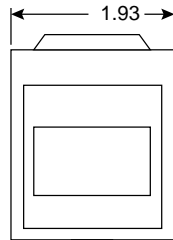
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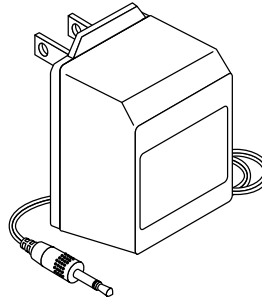
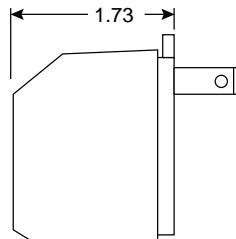
Specifications:

- Primary voltage: 120V 60Hz 12W
- Exciting current, open circuit: 90mA max.
- DC resistance $\pm 15\%$: 125 Ω
- Secondary, no load voltage: 13.7VAC
- Loaded voltage: 12VAC @ 500mA
- DC resistance $\pm 10\%$: 1.3 Ω
- Rated continuous output power: 6VA
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

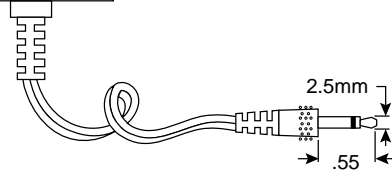
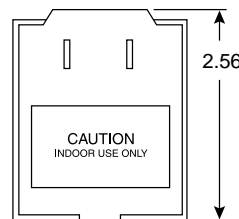
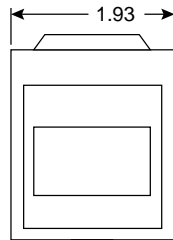
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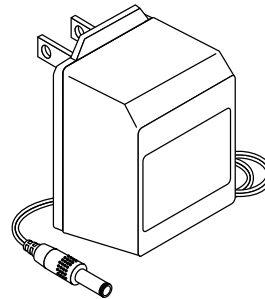
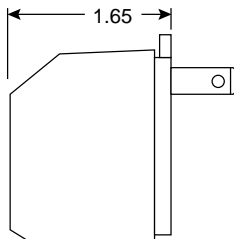
Specifications:

- Primary voltage: 120V 60Hz 12W
- Exciting current, open circuit: 120mA max.
- DC resistance $\pm 15\%$: 125 Ω
- Secondary, no load voltage: 17.4VAC
- Loaded voltage: 15VAC @ 400mA
- DC resistance $\pm 10\%$: 1.7 Ω
- Rated continuous output power: 6VA
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

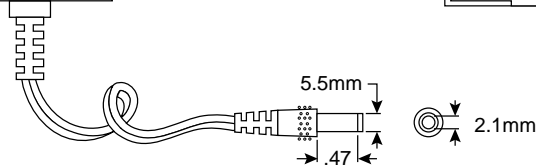
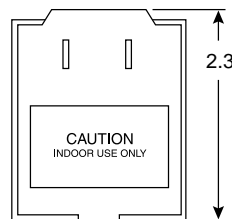
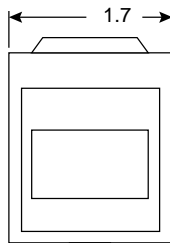
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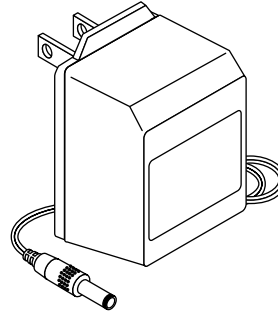
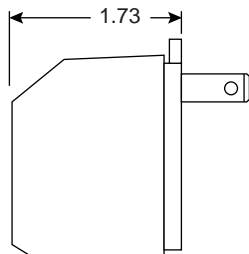
Specifications:

- Primary voltage: 120V 60Hz 6.75W
- Exciting current, open circuit: 85mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 17VDC
- Loaded voltage: 9VDC @ 300mA
- DC resistance $\pm 10\%$: 60 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load
- Polarity: center positive
- Cord Length: 6' \pm .25"

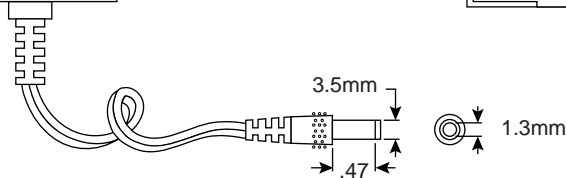
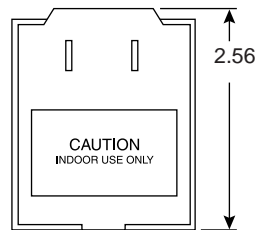
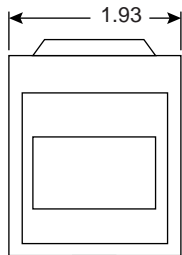
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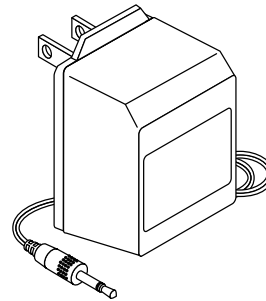
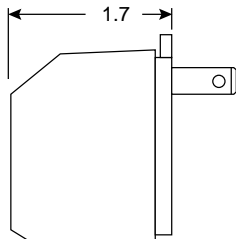


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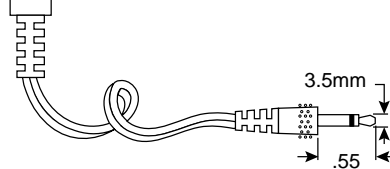
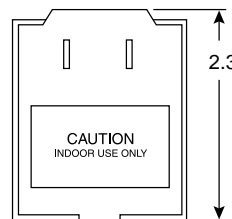
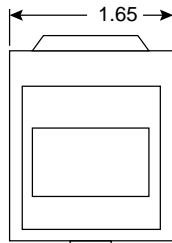
- Primary voltage: 120V 60Hz 15W
- Exciting current, open circuit: 120mA max.
- DC resistance $\pm 10\%$: 125 Ω
- Secondary, no load voltage: 17.7VDC
- Loaded voltage: 12VDC @ 500mA
- DC resistance $\pm 10\%$: 1 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



File No. E170147



Dimensions (In.)
except where noted



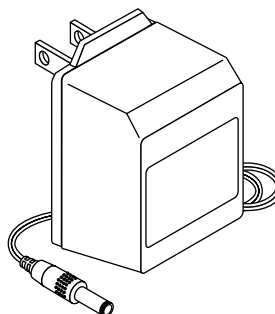
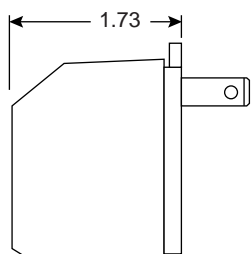
Specifications:

- Primary voltage: 120V 60Hz 4.5W
- Exciting current, open circuit: 80mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 13.2VDC
- Loaded voltage: 9VDC @ 200mA
- DC resistance $\pm 10\%$: 1.4 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load

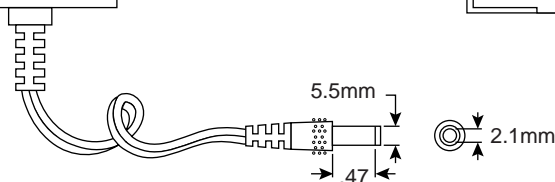
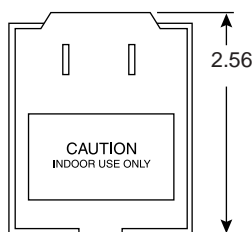
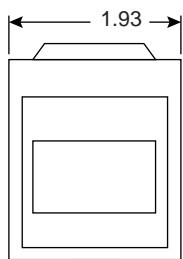
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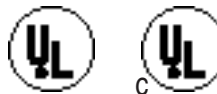


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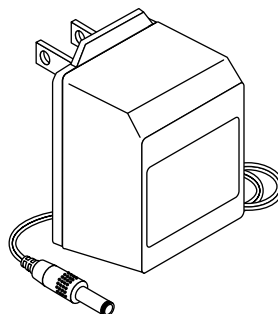
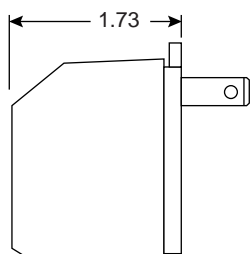


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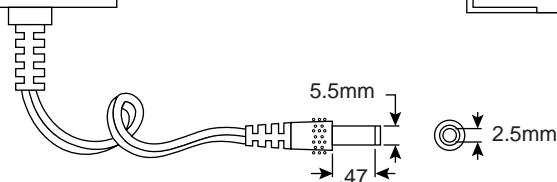
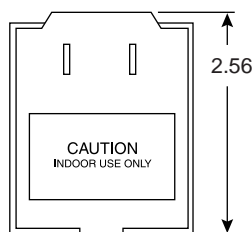
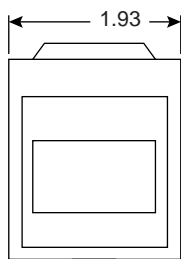
- Primary voltage: 120V 60Hz 15W
- Exciting current, open circuit: 120mA max.
- DC resistance $\pm 10\%$: 125 Ω
- Secondary, no load voltage: 17.7VDC
- Loaded voltage: 12VDC @ 500mA
- DC resistance $\pm 10\%$: 1 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



File No. E170147

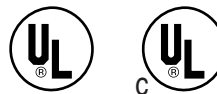


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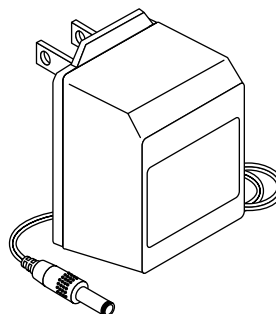
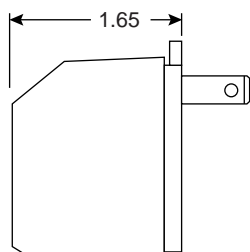


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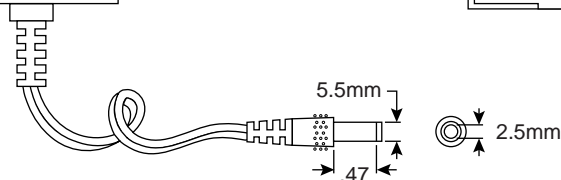
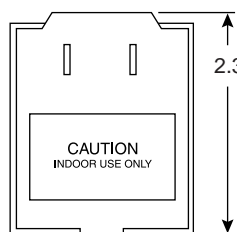
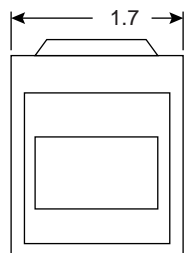
- Primary voltage: 120V 60Hz 15W
- Exciting current, open circuit: 120mA max.
- DC resistance $\pm 10\%$: 125 Ω
- Secondary, no load voltage: 17.7VDC
- Loaded voltage: 12VDC @ 500mA
- DC resistance $\pm 10\%$: 1 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



File No. E170147

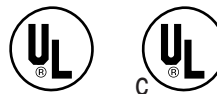


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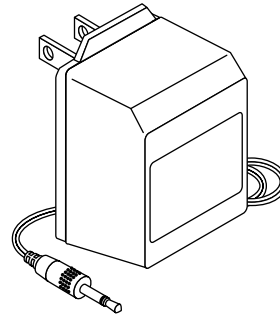
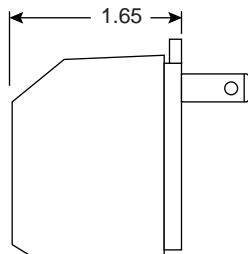


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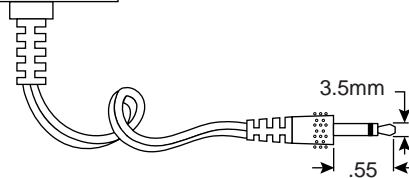
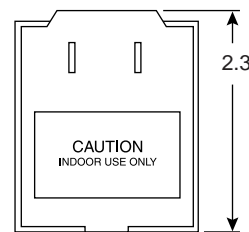
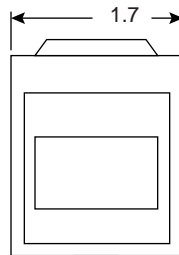
- Primary voltage: 120V 60Hz 6W
- Exciting current, open circuit: 60mA max.
- DC resistance $\pm 15\%$: 279 Ω
- Secondary, no load voltage: 19VDC
- Loaded voltage: 12VDC @ 200mA
- DC resistance $\pm 10\%$: 11.3 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



File No. E170147

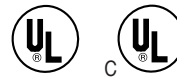


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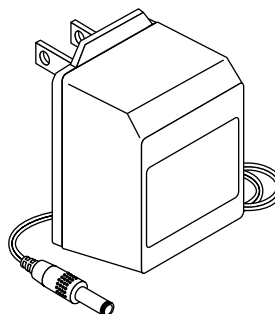
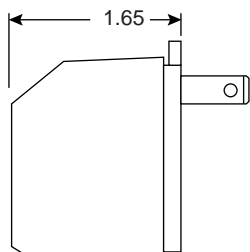


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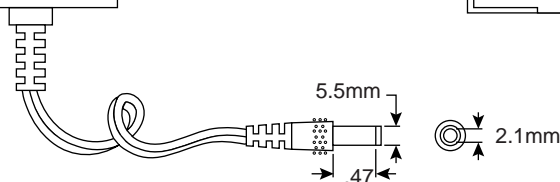
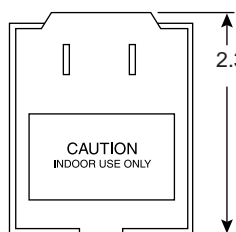
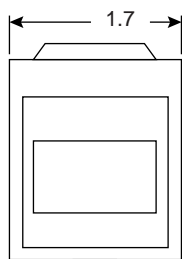
- Primary voltage: 120V 60Hz 4.5W
- Exciting current, open circuit: 80mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 13.2VDC
- Loaded voltage: 9VDC @ 200mA
- DC resistance $\pm 10\%$: 1.4 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



File No. E170147

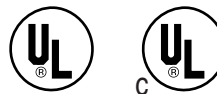


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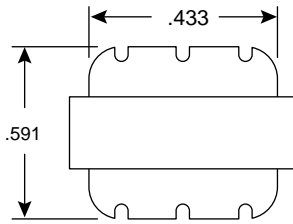
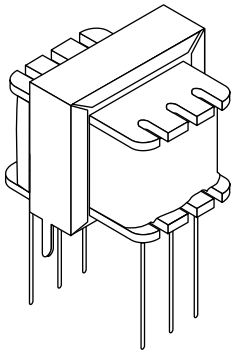


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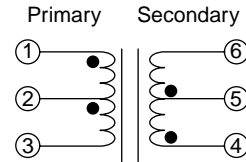
- Primary voltage: 120V 60Hz 4.5W
- Exciting current, open circuit: 60mA max.
- DC resistance $\pm 15\%$: 272 Ω
- Secondary, no load voltage: 14.8VDC
- Loaded voltage: 12VDC @ 100mA
- DC resistance $\pm 10\%$: 2.6 Ω
- Insulation resistance: 100M Ω @ 500VDC
- Dielectric strength: primary-secondary: 1,500VAC for 1 minute
primary-core: 1,500VAC for 1 minute
secondary-core: 500VAC for 1 minute
- Temperature rise: 65°C max. @ rated load



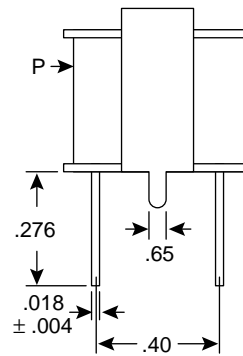
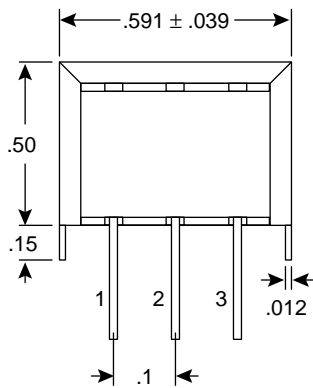
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Schematic



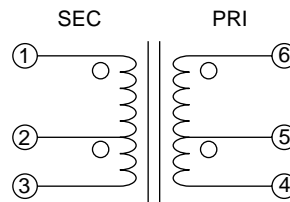
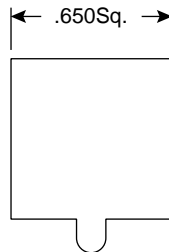
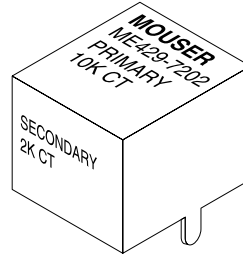
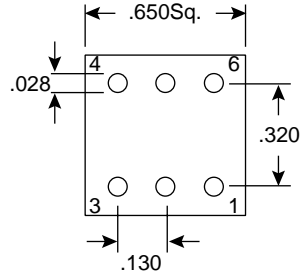
Dimensions (In.)



Specifications:

- Core type/size: EI-14
- Impedance variation: ±10% @ 1KHz
- D.C. resistance tolerance: ±15%
- Insulation: >10MΩ @ 100VDC
- Breakdown voltage: 100VAC HIPOT for 1 minute
- Maximum output: 75mW
- Frequency response: ±3dB, 300Hz-3.4KHz @ 1KHz 0dB
- Waxing: vacuum treatment
- Other: can be water washed with water temperature @ <20°C.

Mouser Stock No.	Impedance (Ω)		Resistance (Ω)	
	Pri.	Sec.	Pri.	Sec.
42TL001	500	8	35	1.0
42TL003	1.2K	8	80	1.0
42TL004	200	8	12	1.0
42TL008	800	8	40	1.0
42TL012	10K	5K	900	500
42TL013	1K	8	60	1.0
42TL016	600	600	65	55
42TL017	20K	600	693	66
42TL018	7K	10K	400	385
42TL019	10K	600	450	100
42TL021	4K	600	148	64
42TL022	1.5K	600	125	55
42TL023	300	600	30	35
42TL024	10K	500	530	136
42TL025	17K	1K	693	146
42TL026	500	16	43	1.9
42TL027	1K	2K	130	140
42TL030	100	100	10.9	9.10
42TL218	10K	10K	715	583
42TL002	10K	2K	500	200
42TL006	20K	1K	600	110
42TL009	500	500	40	38
42TL011	1.5K	500	120	55
42TL020	600	900	36	50
42TL031	600	100	42.8	20.2



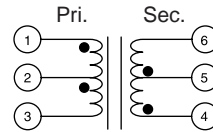
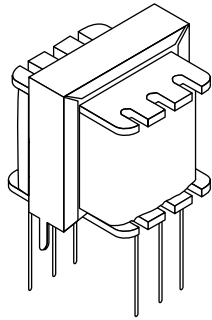
Schematic

Dimensions (In.)

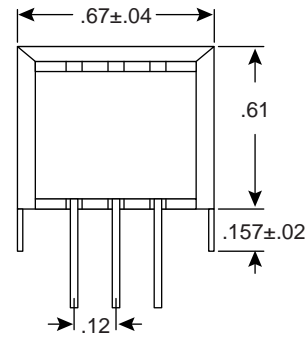
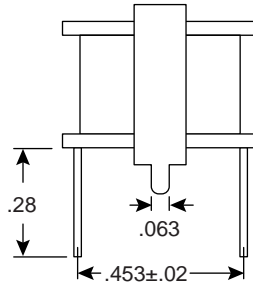
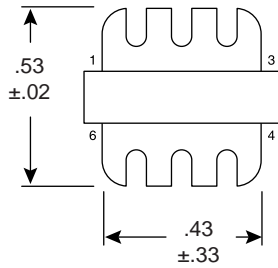
Specifications:

- Type: shielded audio
- Core size: EI-14
- Impedance: $\pm 10\%$ @ 1KHz
- D.C. resistance: $\pm 15\%$
- Breakdown voltage: 100VAC hipot for 1 minute
- Insulation: $>10M\Omega$ @ 100VDC
- Maximum output: 75mW
- Soldering temperature: 230°C~270°C
- Frequency response: $\pm 2dB$, 300Hz~3.5KHz

Mouser Stock No.	Impedance Ω		Resistance Ω	
	Pri.	Sec.	Pri.	Sec.
429-7201	500	8	35	1
429-7202	10K	2K	580	200
429-7209	500	500	40	38
429-7216	600	600	65	55
429-7218	7K	10K	400	385



Schematic



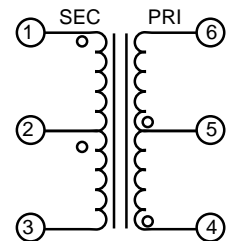
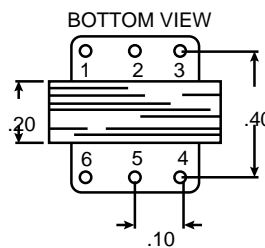
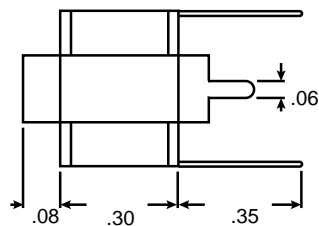
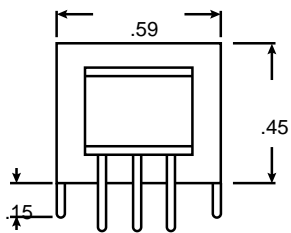
Dimensions (In.)

Specifications:

- Type: micro-subminiature
- Core type/size: EI-16
- Output: 0.075W max.
- Insulation: >10MΩ @ 100VDC
- Breakdown voltage (hi-pot): 100VAC for one minute
- Waxing: vacuum treatment

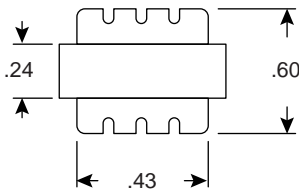
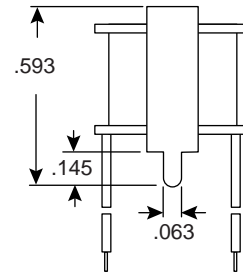
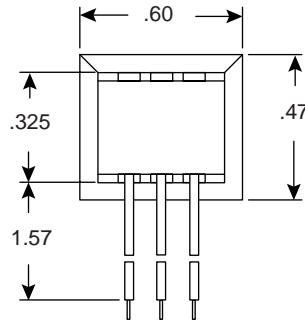
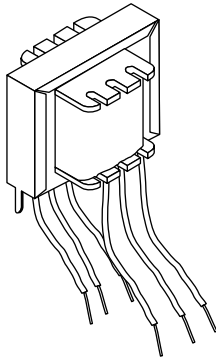
Mouser Stock No.	Impedance (Ω)		Resistance (Ω)		Application (Typical)	Wire/Turn (Tδx2)	
	Pri.	Sec.	Pri.	Sec.		Primary	Secondary
42MC001	500 CT	8 CT	80	3.5	Output	∅0.08/400	∅0.14/65
42MC003	1.2K CT	8 CT	80	1	Output	∅0.09/480	∅0.20/37
42MC009	500 CT	500 CT	30	28	Interstage	∅0.12/275	∅0.11/275

Dimensions (In.)

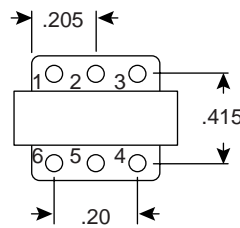
**Material Specifications:**

- Core type/size: EI-14
- Impedance: $Z_p=20K\Omega$ (CT) $\pm 15\%$, $Z_s=1K\Omega$ (CT) $\pm 15\%$
- D.C. resistance: $R_p=600\Omega$ $\pm 15\%$, $R_s=110\Omega$ $\pm 15\%$
- Breakdown voltage: 100VAC HIPOT for 1 minute
- Insulation: 100M Ω (min.) @ 100VDC
- Power level: 0.075
- Frequency range: 300Hz to 3.5KHz
- Turns ratio: Pri.: 1.27, Sec: 1

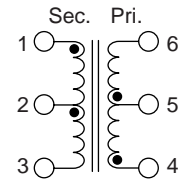
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Top View



Bottom View



Circuit Diagram

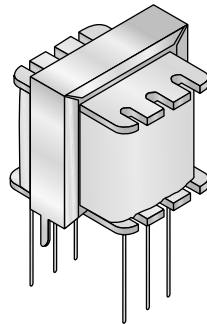
Dimensions (In.)

Specifications:

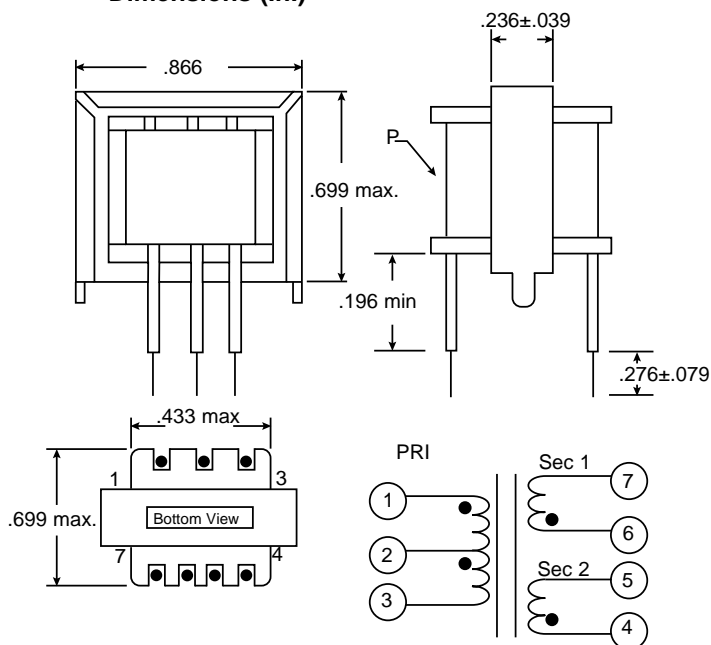
- Type: ultraminiature core, EI-14
- Impedance variations: $\pm 10\%$ @ 1KHz
- Resistance variations: $\pm 15\%$
- Waxing: vacuum treatment
- Frequency response: $\pm 3\text{dB}$, 300~3.4KHz @ 1KHz 0dB
- Insulation: $> 10\text{M}\Omega$ @ 100VDC
- Breakdown voltage: 100VAC hi-pot for 1 minute
- Maximum output: 75mW

Mouser Stock No.	Impedance (Ω)		Resistance (Ω)		Wire Color					
	Primary	Secondary	Primary	Secondary	1	2	3	4	5	6
42KL001	500 CT	8 CT	36	1	green	yellow	blue	blue	white	red
42KL002	10K CT	2K CT	500	200	blue	yellow	blue	red	yellow	red

can be water washed with water temperature $< 30^\circ\text{C}$



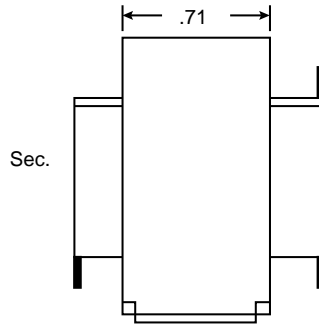
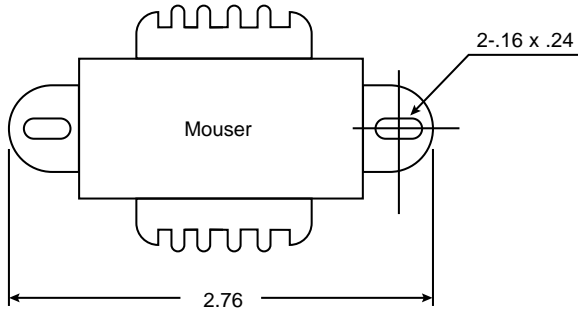
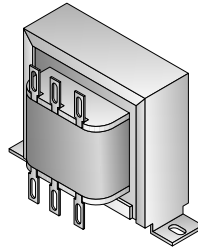
Dimensions (In.)



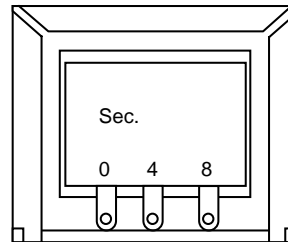
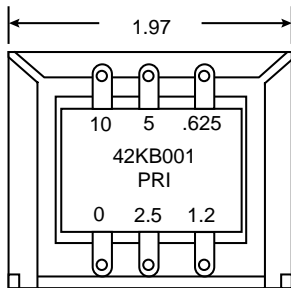
Electrical Specifications:

- Impedance ratio: PRI 600Ω(CT) SEC₁ 600Ω Sec₂ 600Ω
- Impedance variation: ±10% AT 1KHZ 0.25V
.200 watt max output
- Primary wire: 0.08 ∅ x2 turns 320 (Ref)
- Secondary wire: 0.08 ∅ x2 turns 640 (Ref)
- DC resistance: Primary 78Ω ±15%
Secondary (6-7) 65Ω ±15% Secondary (4-5) 60Ω ±15%
- Frequency response: ±2dB 300HZ-3, .4KHZ 0dB
- Insulation: More than 10MΩ V DC 100
- Breakdown: 100 V Hipot for 1 minute
- Waxing: Vacuum treatment

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Dimensions (In.)



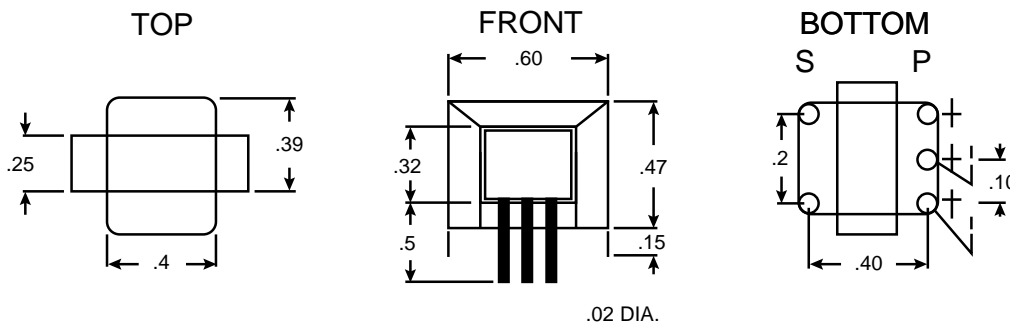
Specifications:

- Line voltage: 70V
- Primary rated power: 10W, 5W, 2.5W, 1.25W, 0.625W
- Secondary load: 4, 8Ω
- Frequency response: 100Hz to 10KHz ± 3db max.
- Input impedance: C - 10W 500Ω ± 15% max.
C - 5W 1000Ω ± 15% max.
C - 2.5W 2000Ω ± 15% max.
C - 1.25W 4000Ω ± 15% max.
C - 0.625W 8000Ω ± 15% max.
(1KHz 1VAC sec. 8Ω load)
- Hi-pot test: 1000VAC 60Hz between winding to winding and between winding to core
- Insulation test: 500VDC 100MΩ min. between winding to winding and core
- Secondary wire is 0.6mm: 0--4Ω = 60 turns
0--8Ω = 85 turns
- Primary wire is 0.13mm: 0--10W = 665 turns
0--5W = 940 turns
0--2.5W = 1330 turns
0--1.25W = 1880 turns
0--0.625W = 2660 turns

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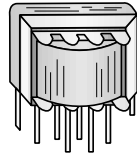
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Dimensions (In.)

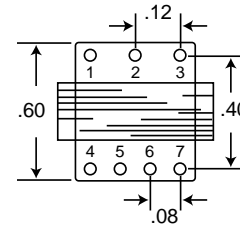
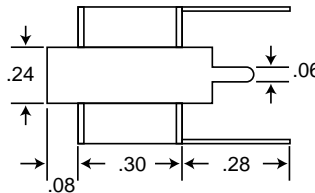
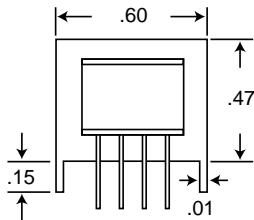
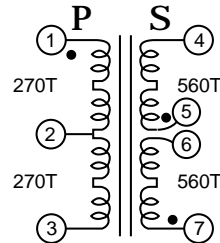
**Material Specifications:**

- Primary impedance: 1.5K Ω
- Secondary impedance: 600 Ω
- Primary resistance: 125 Ω
- Secondary resistance: 55 Ω
- Impedance variation: $\pm 10\%$ @ 1 KHz/1V
- Resistance variation: $\pm 15\%$
- Center tap unbalance: $\pm 10\%$ max. @ 1 KHz/1V
- Insulation resistance: 100 M Ω
- Breakdown voltage: 500VAC HI-POT 1 minute
- Maximum output: .075 watts
- frequency response: $\pm 3\text{db}$ 350 Hz to 4 KHz
- Insertion loss: 2.5 db max. @ 1 KHz/1V

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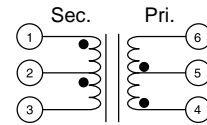
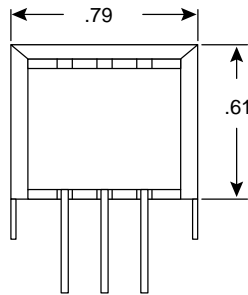
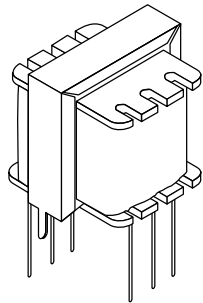
Dimensions (In.)



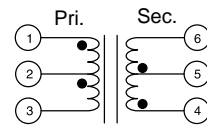
Specifications:

- Core type/size: EI-14
- Impedance: primary 600Ω CT
sec #1 (4-5) 600Ω
sec #2 (6-7) 600Ω
- Impedance variation: ±10% @ 1 KHz, .25
- DC resistance: primary 72Ω ± 15%
sec #1 56Ω ± 15%
sec #2 56Ω ± 15%
- Insulation: 100MΩ @ 100VDC
- Breakdown: 100VDC for 1 minute
- Waxing: vacuum treatment
- Max output: 75mW
- Freq resp: ± 3dB 300Hz - 3.4KHz @ 1KHz ∅dB
- Can be water washed with water temperature less than 20°C

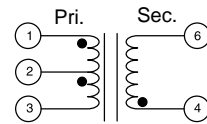
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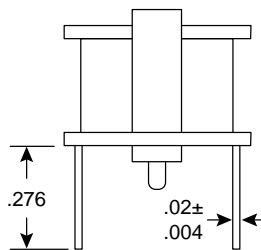
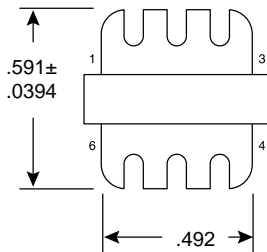
Schematic: A



Schematic: B



Schematic: C



Dimensions (In.)

Specifications:

- Impedance variation: $\pm 10\%$ @ 1KHz
- DC resistance tolerance: $\pm 15\%$
- Frequency response: $\pm 3\text{dB}$, 300~3.4KHz @ 1KHz 0dB
- Breakdown voltage: 100VAC hipot for 1 minute
- Insulation: $> 10\text{M}\Omega$ @ 100VDC
- Core type/size: EI-19
- Waxing: vacuum treatment
- Maximum output: 200mW

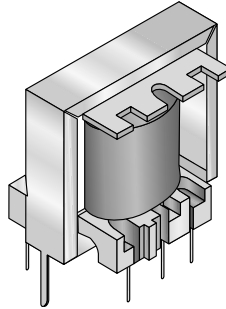
Mouser Stock No.	Impedance (Ω)		Resistance (Ω)	
	Pri.	Sec.	Pri.	Sec.
Schematic: A				
42TM001	500	8	26	1.0
42TM002	10K	2K	600	155
42TM003	1.2K	8	80	1
42TM004	280	8	12	1
42TM008	800	8	40	1
42TM011	1.5K	500	120	50
42TM012	10K6	5K	900	500
42TM016	00	600	65	55
42TM017	25K	600	1K	80
42TM020	600	900	36	50
42TM021	4K	600	244	77
42TM022	1.5K	600	65	45
42TM023	600	300	55	30
42TM026	500	16	50	5
42TM030	100	100	9.25	7.8
42TM114	4.6K	20	300	2
42TM117	50K	1K	1.2	42
42TM118	400	8	40	1

Mouser Stock No.	Impedance (Ω)		Resistance (Ω)	
	Pri.	Sec.	Pri.	Sec.
Schematic: B				
42TM006	20K	1K	900	70
42TM009	500	500	50	40
42TM013	1K	8	75	1
42TM018	10K	10K	550	500
42TM019	10K	600	600	100
42TM024	10K	500	550	150
42TM027	1K	2K	85	85
42TM031	600	100	30.1	14.3
Schematic: C				
42TM031	8K	3K	300	200

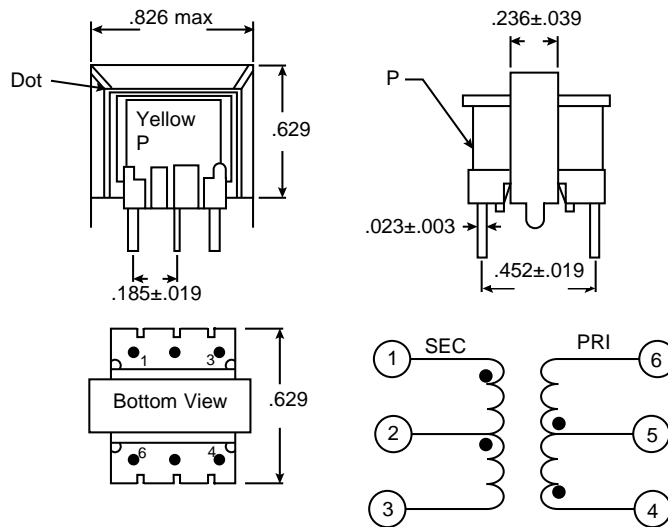
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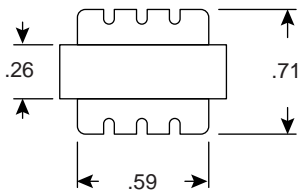
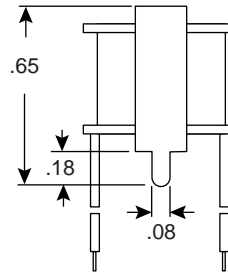
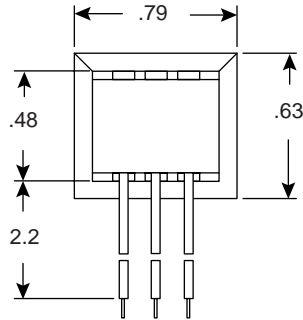
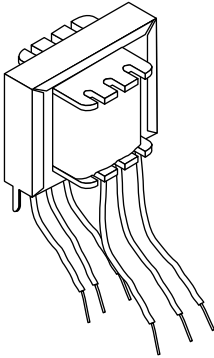
Dimensions (In.)



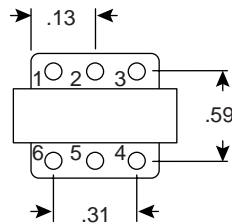
Mouser Stock No.	Impedance (Ω) +/- 10%		DC Resistance (Ω) +/- 10%		Breakdown Voltage V (AC)	Turns	
	PRI	SEC	PRI	SEC		PRI	SEC
42XM002	10K CT	2K CT	600	155	500	1155 x 2	490 x 2
42XM009	500 CT	500 CT	50	40	250	300 x 2	300 x 2
42XM012	10K CT	5K CT	900	500	100	1400 x 2	950 x 2
42XM016	600 CT	600CT	65	55	500	330 x 2	330 x 2

Insulation Resistance: 100M Ω min. @ 500VDC

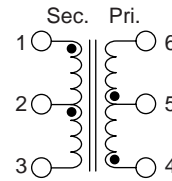
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Top View



Bottom View



Circuit Diagram

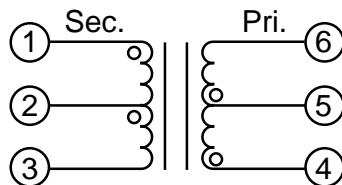
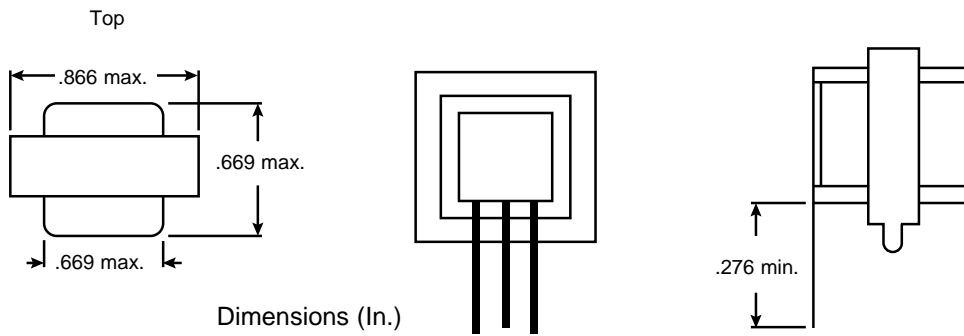
Dimensions (In.)

Specifications:

- Type: subminiature core, EI-19
- Impedance variations: $\pm 10\%$ @ 1KHz/1VAC
- Resistance variations: $\pm 15\%$
- Center tap unbalance: $\pm 3\%$ max. (1KHz/1 VAC)
- Insulation: $10M\Omega$ (min.), 100VDC (coil to coil)
- Breakdown voltage: 100V hi-pot for 1 minute
- Maximum output: 200mW

Mouser Stock No.	Impedance (Ω)		Resistance (Ω)		Turns ratio Pri : Sec	Wire Color					
	Primary	Secondary	Primary	Secondary		1	2	3	4	5	6
42KM001	500 CT	8 CT	20	1.0	8.79:1	White	Black	Brown	Red	Black	Red
42KM002	10K CT	2K CT	570	155.0	2.61:1	Brown	Yellow	White	White	Yellow	White
42KM003	1.2K CT	8 CT	80	1.0	13.86:1	Blue	Yellow	Green	Blue	White	Red
42KM006	18K CT	1K CT	900	70.0	4.57:1	Brown	Yellow	Brown	Blue	Yellow	Blue
42KM008	800 CT	8 CT	40	1.0	10.27:1	Red	Yellow	Red	White	Yellow	White
42KM014	1K CT	8 CT	40	0.8	11.49:1	Red	Yellow	Red	Blue	Yellow	Blue
42KM019	20K CT	4 CT	1000	0.5	4.38:1	Red	Blue	Red	White	Blue	White

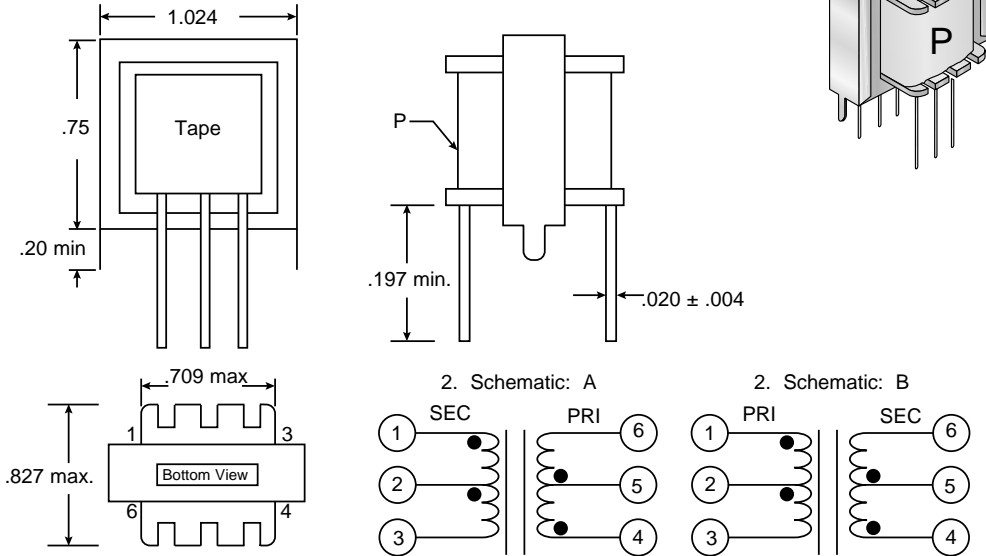
can be water washed with water temperature < 30°C

**Material Specifications:**

- Core type/size: EI-19
- Impedance: $Z_s=300\Omega$ (CT), $Z_p=600\Omega$ (CT)
- Impedance variation: $\pm 10\%$ @ 1KHz 1V
- D.C. resistance: $R_s=30\Omega \pm 10\%$, $R_p=55\Omega \pm 10\%$
- Breakdown voltage: 100VAC HIPOT for 1 minute
- Insulation: $10M\Omega$ @ 100VDC
- Waxing: Vacuum treatment

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Dimensions (In.)



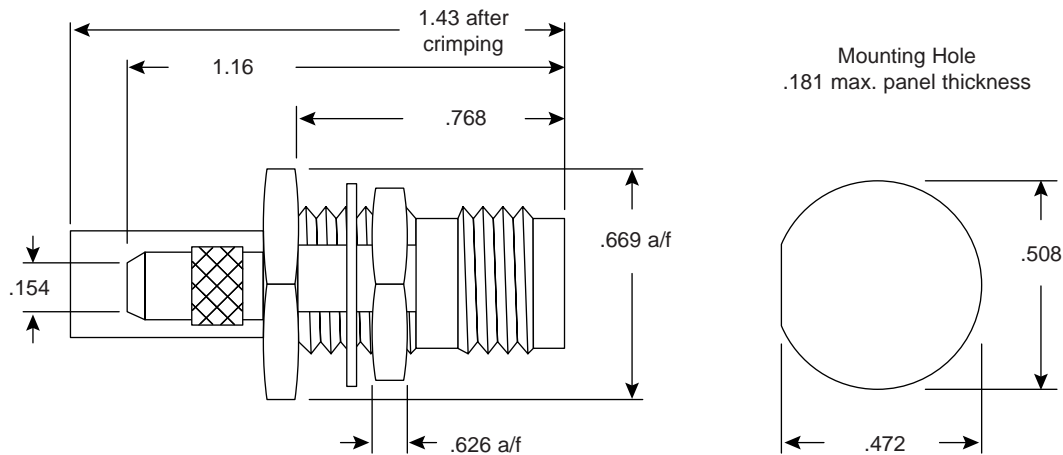
Electrical Specifications:

- Core type / size: EI-24
- Impedance variation: $\pm 10\%$ @ 1KHz
- D.C. resistance: $\pm 15\%$
- Insulation: $>10M\Omega$ @ 100VDC
- Breakdown voltage: 100VAC hipot for 1 minute
- Max. output: 460mW
- Frequency response: $\pm 3dB$, 300-3.4KHz @ 1KHz 0dB
- Waxing: vacuum treatment
- Can be water washed with water temperature less than 20°C.

Mouser Stock No.	Schematic	Impedance		Resistance	
		PRI	SEC	PRI	SEC
42TU002	A	10K Ω	2K Ω	600 Ω	155 Ω
42TU003	A	1.2K Ω	8 Ω	75 Ω	1 Ω
42TU008	A	800 Ω	8 Ω	40 Ω	1 Ω
42TU011	B	1.5K Ω	500 Ω	120 Ω	50 Ω
42TU012	A	10K	5K	425	220
42TU013	A	1K Ω	8 Ω	75 Ω	1 Ω
42TU016	A	600 Ω	600 Ω	65 Ω	55 Ω
42TU019	A	10K Ω	600 Ω	600 Ω	100 Ω
42TU048	A	40 Ω	8 Ω	2.5 Ω	0.5 Ω
42TU120	B	120 Ω	8 Ω	7 Ω	0.7 Ω
42TU200	A	200 Ω	8 Ω	12 Ω	0.5 Ω
42TU400	A	500 Ω	8 Ω	18 Ω	0.7 Ω
42TU500	A	500 Ω	500 Ω	35 Ω	28 Ω

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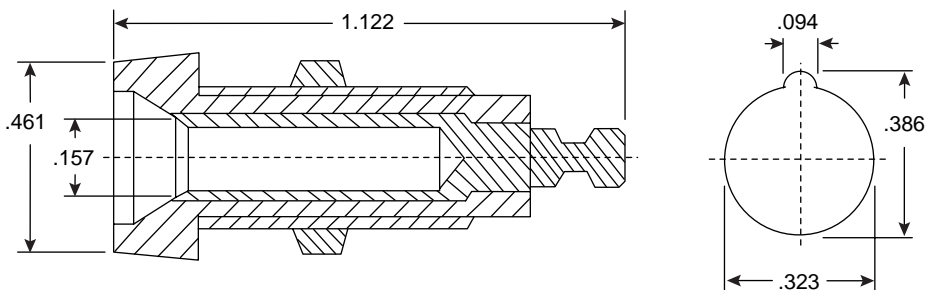
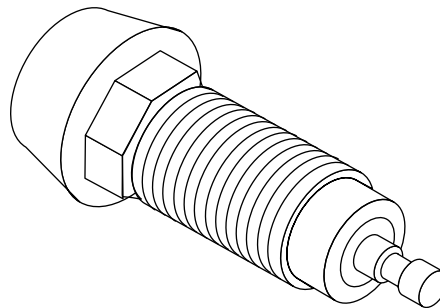
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Dimensions (In.)

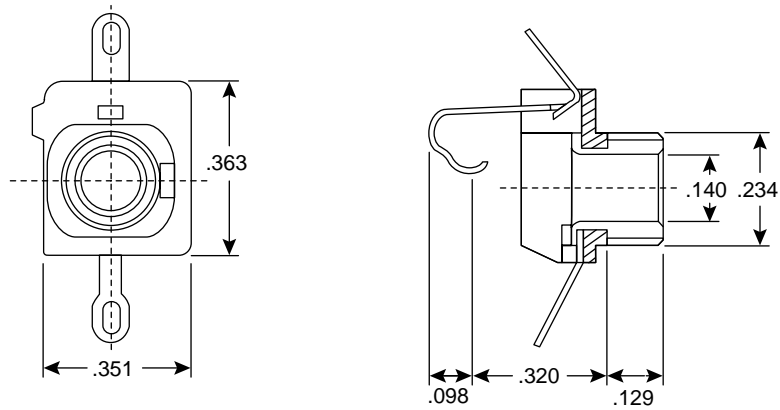
Specifications:

- Type: TNC crimp bulkhead
- Working frequency: 4GHz max.
- VSWR: 1.3:1
- Working voltage: 500V peak
- Current rating: 1A
- Temperature range: -55C ~ +155°C
- Body & male contact: brass ~ BS 2874
- Socket contact-female: Beryllium copper
- Insulation: PTFE
- Gaskets: silicone rubber
- Center contacts: silver plate ~ DTD 919, Argalin treated (other finishes available)
- Fits cable types: RC59, RG62, RG302, RG210, UR90, URM90, URM96 (ø0.6mm~3.7mm coax)



Specification:

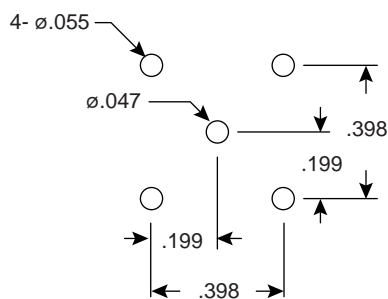
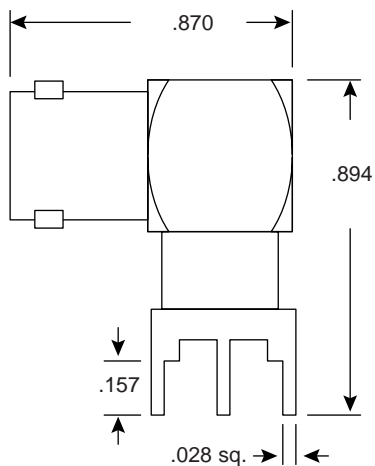
- Type: hi-rel
- Color: 164-6216 (Black); 164-6217 (Red)
- Single pole socket: polypropylene AMOCO 50104
- Socket pin: brass bright tin lead plated
- Nut: nickel plated brass
- Rating: 10A
- Working voltage: 250VRMS
- Test voltage: 1200VRMS
- Contact resistance: $<10\Omega$
- Panel thickness: .531"



Dimensions (In.)

Specifications:

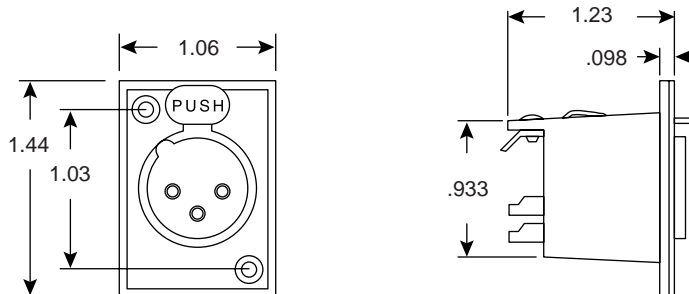
- Type: open circuit mono phone jack
- Terminal: BSR; 0.3" thick
- Contact: y-cut; 0.25" thick
- Body: PC
- Sleeve: BSBM



Dimensions (In.)

Specifications:

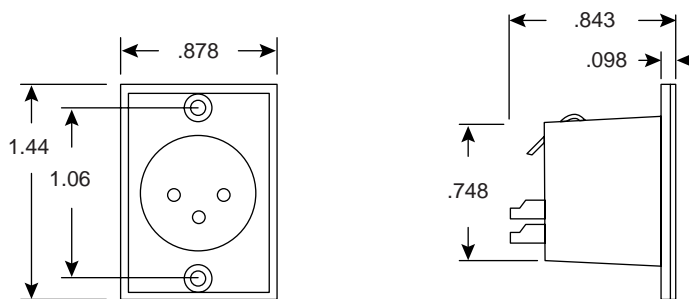
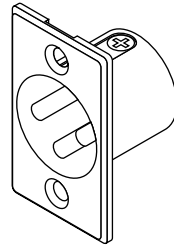
- Type: BNC
- Contact: silver plated
- Gaskets: silicon rubber
- Body: nickel plated
- Insulation: teflon
- Impedance: 50Ω
- Designed to MIL standard specs



Dimensions (In.)

Specifications:

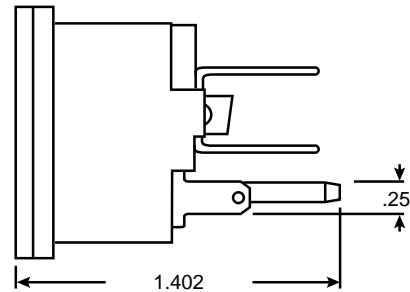
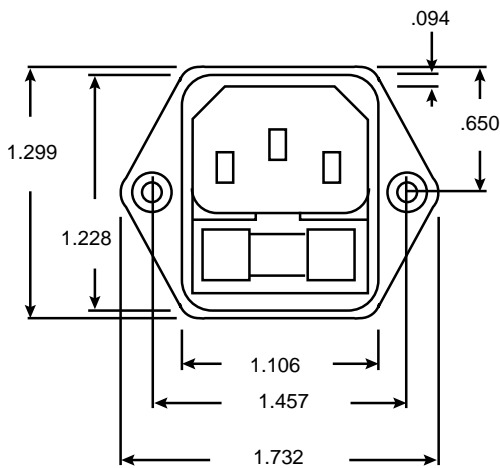
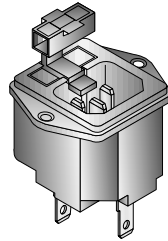
- Contacts: 3 pins, silver plated brass
- Contact housing: molded rubber
- Housing: zinc diecast, matt chrome plated



Dimensions (In.)

Specifications:

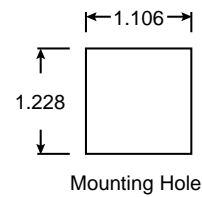
- Contacts: 3 pins, silver plated brass
- Contact housing: glass filled nylon molding
- Housing: zinc diecast, matt chrome plated



Dimensions (In.)

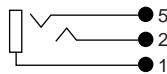
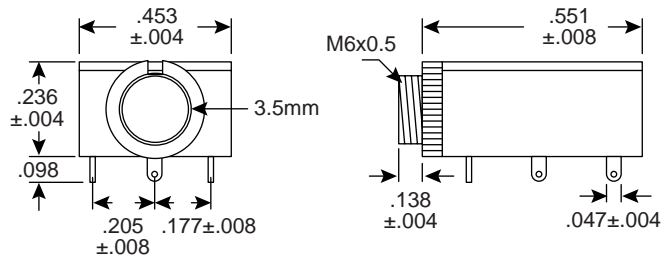
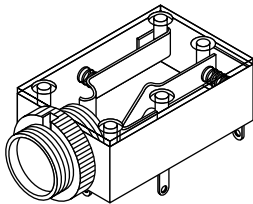
Specifications:

- Rating: 10A @ 250VAC
- Housing: molded in black noryl
- Contacts: nickel plated brass, 25" fastons
- Fuse terminals: .187" fastons
- Fuse requirement: 20mm
- Mounting holes: .11" diameter
- The fuse link is not electrically connected to the socket and may be wired as needed.



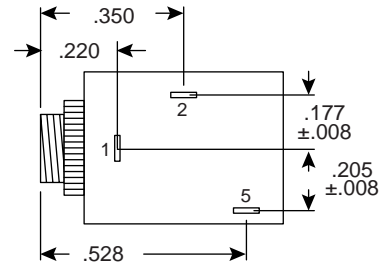
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161-3507
(open circuit)

Circuit Diagram

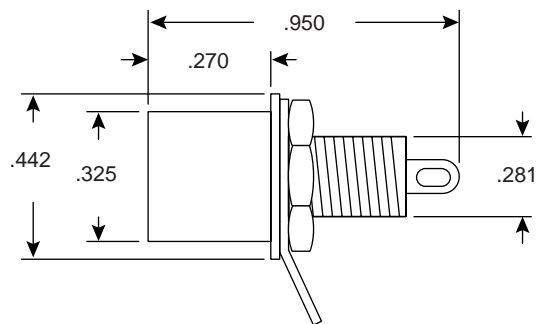
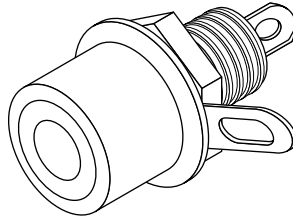


PCB Layout (Bottom View)

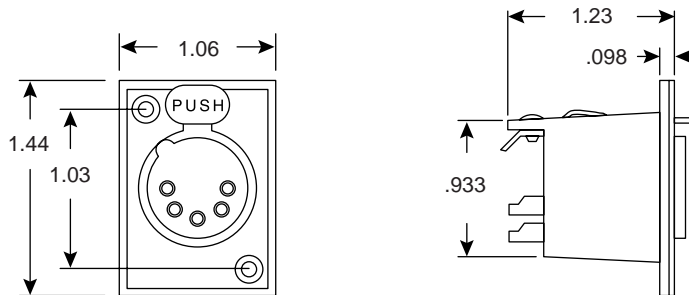
Dimensions (In.)
(except where noted)

Specifications:

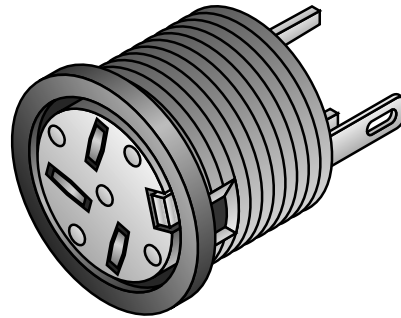
- Type: stereo, PCB mount
- Insulation resistance: >100MΩ
- Contact resistance: <10mΩ
- Withstand voltage: 250VAC for 1 minute
- Bushing: nickel plated brass
- Body: black plastic
- Contact: silver plated phosphor bronze
- Hardware included: knurled nut
- Mounting holes: .25 inches

**Dimensions (In.)****Specifications:**

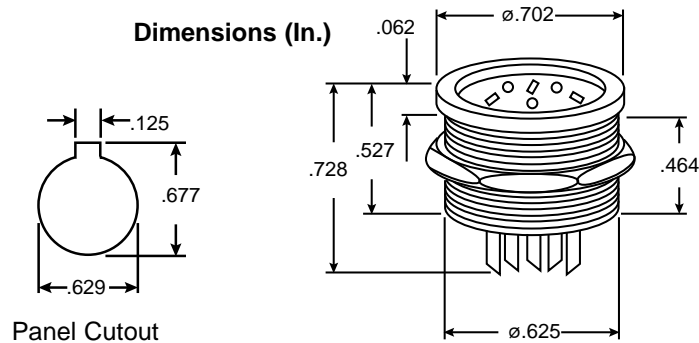
- Type: chassis (front) mount, grounded
- Rating: 5A @ 200VDC/150VAC max.
- Insulation resistance: 100M Ω @ 500VDC
- Insulation: noryl SE1
- Insulating sleeve: acetal
- Washer: nickel plated steel
- Body: BNP plated brass B76
- Docket: silver plated brass
- Solder tag: tin lead
- Hex lock nut: BNP plated brass BS249
- Mounting holes: \varnothing 3/8 inches
- Panel thickness: 1/8 inches

**Dimensions (In.)****Specifications:**

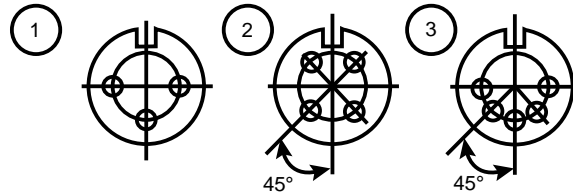
- Contacts: 5 pins, silver plated brass
- Pin base moldings: nylon
- Housing: zinc diecast, matt chrome plated
- Grommets: black (PVC)
- Working voltage: 150VDC or AC peak
- Test voltage: 1500VAC
- Current rating: 15A
- Contact resistance: 2mΩ max.
- Temperature: -25°C ~ 70°C



Dimensions (In.)



PCB Drilling - All pin holes $\varnothing 1.20\text{mm}/.047''$ on a $7.00\text{mm} / .276''$ PCD

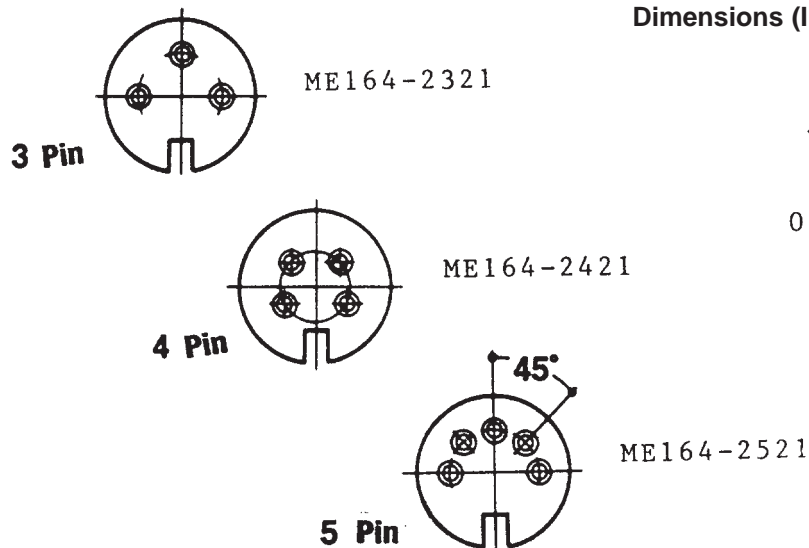


1. 164-2331 3 pin
2. 164-2431 4 pin
3. 164-2531 5 pin

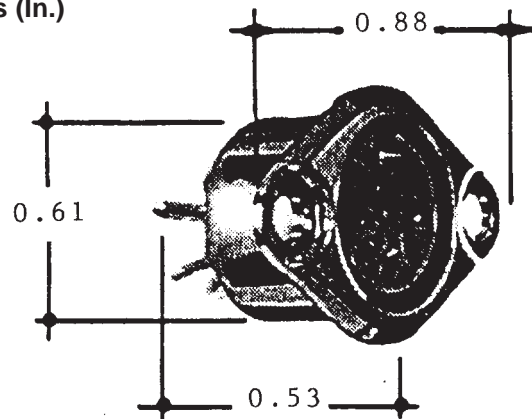
Specification:

- Working voltage: 100VDC or AC peak
- Test voltage: 1000VDC
- Current rating: 4A
- Insulation resistance: $10^{11}\Omega$ min @ 100VDC
- Contact resistance: $10\text{m}\Omega$ max
- Temperature range: -25°C to 70°C
- Pin base mouldings: Nylon
- Cable clamps: plated mild steel
- Grommets: black PVC
- Housing: brass sprayed with black paint
- Contacts: silver plated brass
- Nut: nickel plated brass

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Dimensions (In.)



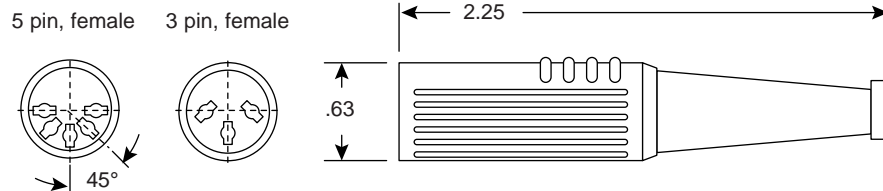
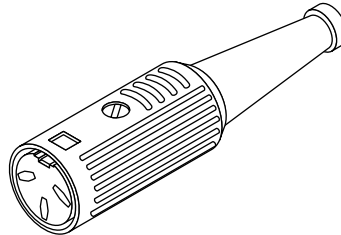
Product Specification

Working Voltage:	100 V d.c. or a.c. peak
Test Voltage:	1000 V d.c.
Current Rating:	4 A
Insulation Resistance:	$10^{11} \Omega$ min at 100 V d.c.
Contact Resistance:	10m Ω max
Capacity (mated):	3 pF
Temperature Range:	-25°C to 70°C
Housing:	matt black plated
Pin Base Mouldings:	Nylon
Contacts:	Brass, silver plated
Cable Clamps:	Plated mild steel
Grommets:	Black PVC

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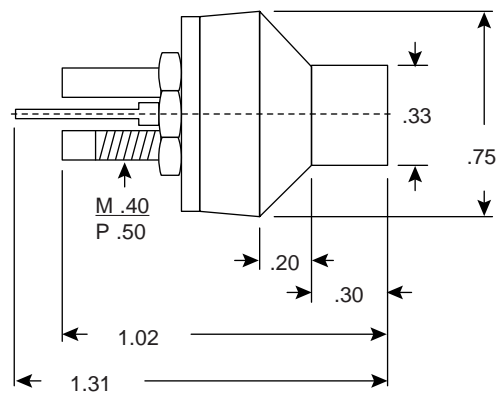
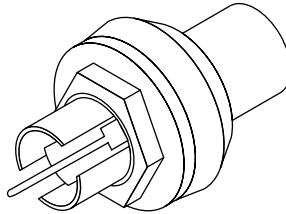
<http://www.mouser.com>



Dimensions (In.)

Specifications:

- Color: matte black
- Degree of arc: 180°
- Working voltage: 100VDC or AC peak
- Test Voltage: 1000VDC
- Current rating: 4A
- Insulation resistance: $10^{11} \Omega$ min. @ 100VDC
- Contact resistance: 10m Ω max.
- Capacity (mated): 3pF
- Temperature range: -25°C ~ 70°C
- Pin base moldings: nylon
- Contacts: silver plated brass
- Cable clamps: plated mild steel
- Grommets: black PVC



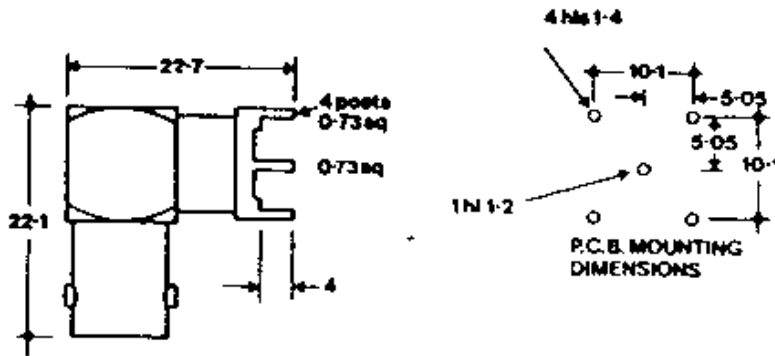
Dimensions (In.)

Specifications:

- Can be built into new or existing equipment
- Insulator: red (161-4206), black (161-4207)
- Plating: gold, 4 μ inches thick
- Contact resistance: 20m Ω max.
- Insulation resistance: \pm 50M Ω @ 500VDC



Dimensions (In.)



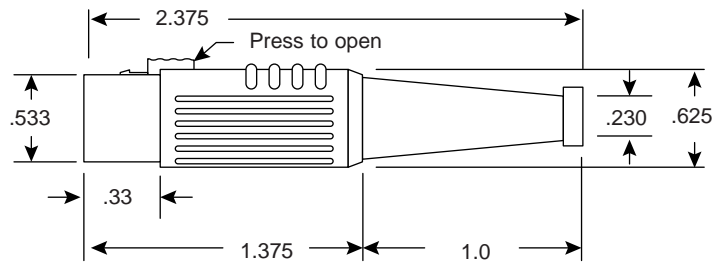
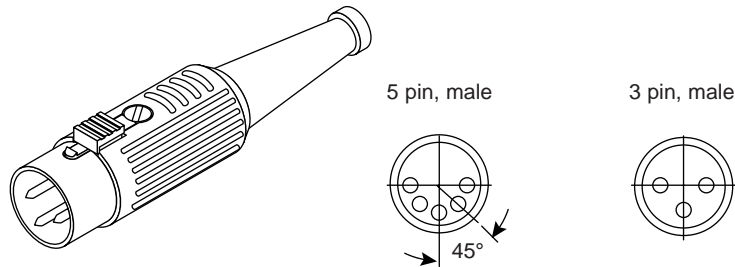
SILVER PLATED CENTER CONTACT
NICKEL PLATED BODY
TEFLON INSULATIONS
50 OHM IMP.

SILICON RUBBER GASKETS
DESIGNED TO MIL STANDARD SPECS
HIGHEST QUALITY

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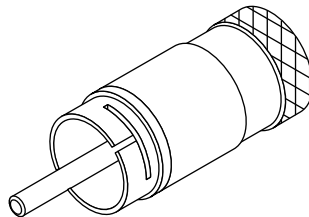
<http://www.mouser.com>



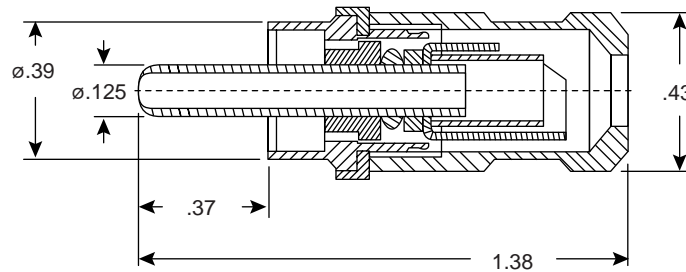
Dimensions (In.)

Specifications:

- Color: bright nickel finish
- Degree of arc: 180°
- Working voltage: 100VDC or AC peak
- Test Voltage: 1000VDC
- Current rating: 4A
- Insulation resistance: $10^{11} \Omega$ min. @ 100VDC
- Contact resistance: 10m Ω max.
- Capacity (mated): 3pF
- Temperature range: -25°C ~ 70°C
- Pin base moldings: noryl/glass filled nylon
- Contacts: silver plated brass
- Housing: heavy nickel plated zinc alloy over copper

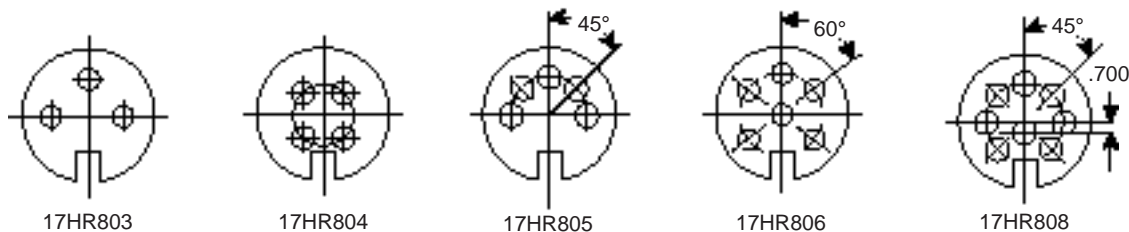
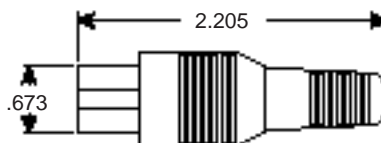
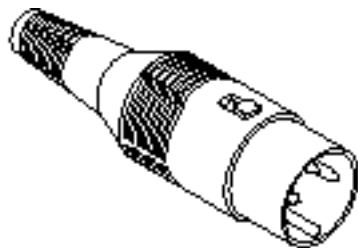


Dimensions (In.)



Specifications:

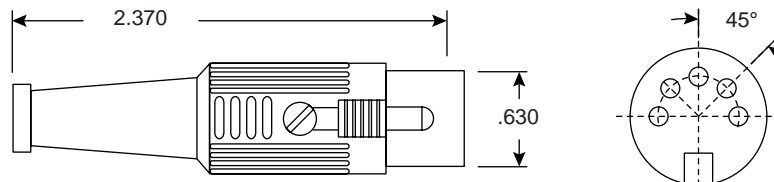
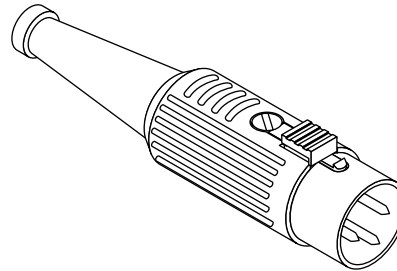
- Type: shielded
- Rating: 5A @ 200VDC / 150VAC (max.)
- Insulation resistance: 100M Ω @ 500VDC
- Material: nickel plated brass
- ID band: none (17HR581), black (17HR582), yellow (17HR585)



Dimensions (In.)

Specifications:

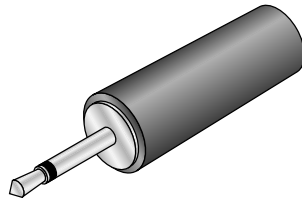
- Type: DIN plugs PVC molded body
- Working voltage: 100 VDC or AC peak
- Test voltage: 1000 VDC
- Current rating: 4A
- Insulation resistance: $10^{11}\Omega$ minimum at 100VDC
- Contact resistance: $10\text{m}\Omega$ maximum
- Capacity (mating): 3pF
- Temperature range: -25°C to $+70^{\circ}\text{C}$
- Housing: gray flexible PVC molding
- Pin base moldings: nylon
- Contacts: brass, silver plated
- Cable clamps: plated mild steel



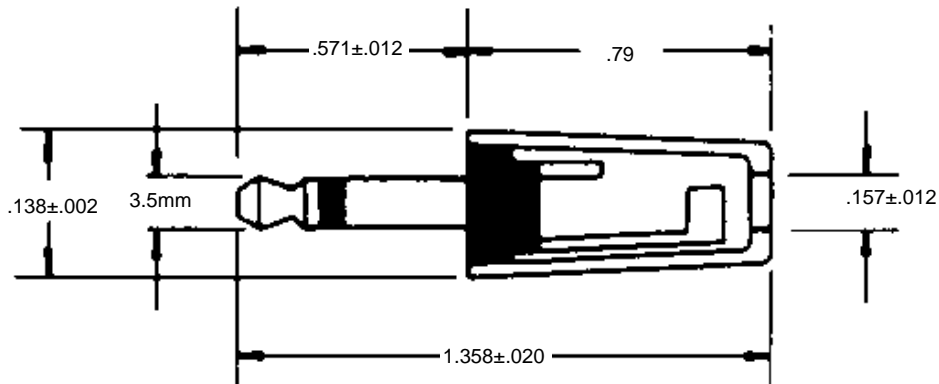
Dimensions (In.)

Specifications:

- Type: 5 conductor male
- Working voltage: 100VDC or AC peak
- Test voltage: 1000VDC
- Current rating: 4A
- Insulation resistance: $10^{11}\Omega$ (min) @ 100VDC
- Contact resistance: 10m Ω (max)
- Mated capacitance: 3pf
- Temperature range: -25°C~+70°C
- Housing: zinc alloy
- Housing finish: conductive matte black (ME174-2512); bright nickel (17HR595)
- Pin base moldings: nylon
- Contacts: silver plated brass
- Grommets: black PVC



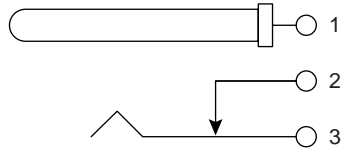
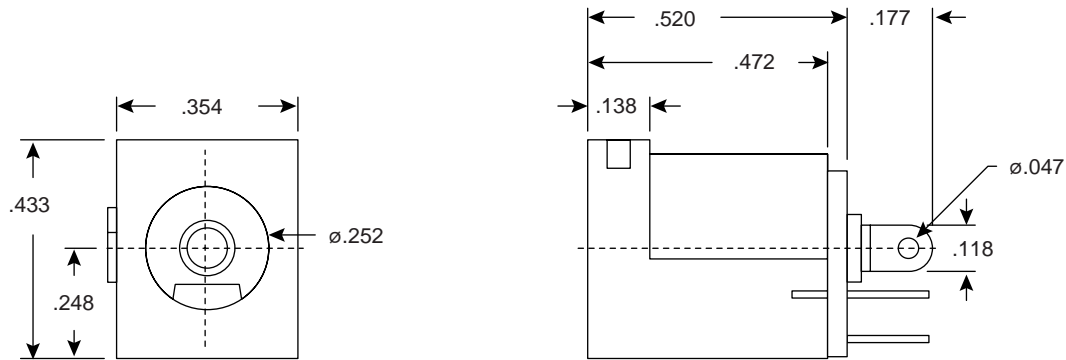
Dimensions (In.)



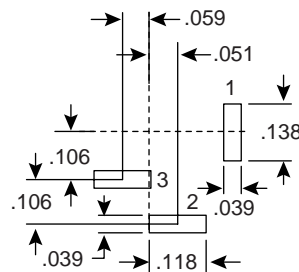
Specifications:

- Dielectric strength: 500VAC for 1 min.
- Insulation resistance: 100MΩ @ 500VDC
- Contact resistance: 50mΩ max
- Cap: ABS resin
- Terminal: nickel plated brass
- Body: ABS resin
- Pin: nickel plated steel
- Contact: nickel plated brass

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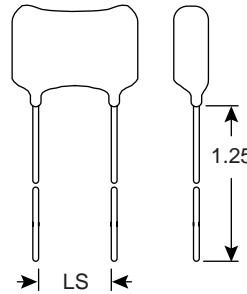
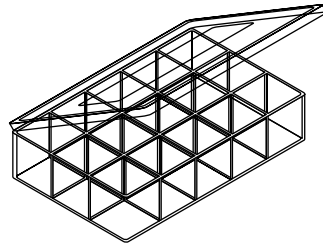
Schematic



Dimensions (In.)

Specifications:

- Insulation resistance: 50M Ω 100V
- Withstand voltage: 250V for 1 minute
- Contact resistance: 0.03 Ω @1A
- Life: 5,000 cycles
- Tolerance: $\pm .012$
- Center pin: $\phi 2.0\text{mm}$

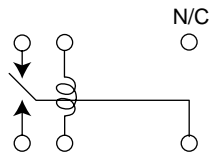
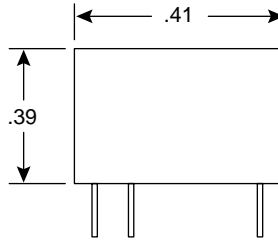
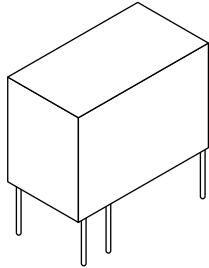


Dimensions (In.)

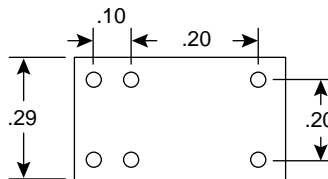
Specifications:

- Fully assembled & keyed for easy use
- No. of pieces each value: 5 pcs
- Type: dipped mica, $\pm 5\%$
- Temperature range: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Voltage range: 300-500WVDC
- Vibration test: 10-2000Hz

Manufacturing Type	Lead Spacing (In.)	WVDC	Values
CD5	.120	300V	1pF, 2pF, 3pF
CD10	.141	500V	5pF, 10pF, 22pF, 33pF, 39pF
CD15	.234	500V	47pF, 56pF, 75pF, 100pF, 220pF
CD19	.344	500V	270pF, 330pF, 390pF, 470pF, 560pF, 680pF, 820pF, 1000pF, 1200pF, 1500pF, 2000pF



Schematic



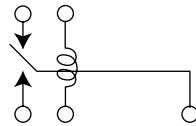
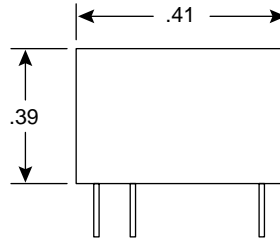
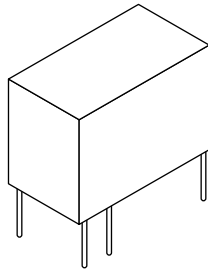
Bottom View

Dimensions (In.)

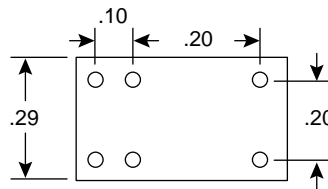
Specifications:

- Type: high performance
- Mechanical life: 1,000,000 operations
- Electrical life: 100,000 operations
- Insulation resistance: 100M Ω (min)
- Operating temperature: -25°C ~ +55°C
- Contact resistance: <50m Ω
- Dielectric strength: 500VAC, 50/60 Hz, 4000VAC, 50/60 Hz (UL listed relays)
- Switching capacity: 2A @ 100VAC/24VDC
- Recommended wave solder technique: temperature @ 250°C \pm -5°C for 2~3 seconds
- UL TV-5 file no. E82292
- Watts: .45W
- Frame bracket & armature: nickel plated SPC1
- Core: nickel plated S-10R
- C-terminal: PBS
- Contact: Ag
- Coil terminal: BsP
- A & B terminals: Inlay, Bs-Ag
- Case: blue PBT
- Bobbin: PBT
- Resin: epoxy

Mouser Stock No.	Nominal Coil		R Coil ($\Omega \pm 10\%$)
	VDC	IDC	
431-1105	5V	90mA	55
431-1106	6V	75mA	80
431-1112	12V	37.5mA	320



Schematic



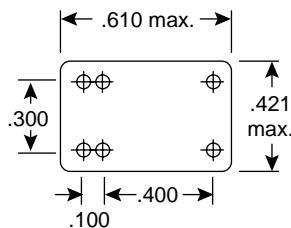
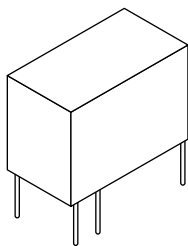
Bottom View

Dimensions (In.)

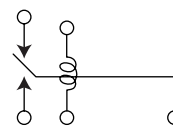
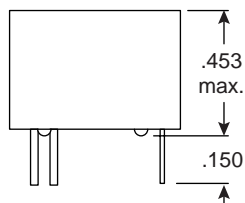
Specifications:

- Type: high performance
- Mechanical life: 1,000,000 operations
- Electrical life: 100,000 operations
- Insulation resistance: 100M Ω (min)
- Operating temperature: -25°C ~ +55°C
- Contact resistance: <50m Ω
- Dielectric strength: 500VAC, 50/60 Hz, 4000VAC, 50/60 Hz (UL listed relays)
- Switching capacity: 2A @ 100VAC/24VDC
- Recommended wave solder technique: temperature @ 250°C \pm -5°C for 2~3 seconds
- UL TV-5 file no. E82292
- Watts: .36W
- Frame bracket & armature: nickel plated SPC1
- Core: nickel plated S-10R
- C-terminal: PBS
- Contact: Ag
- Coil terminal: SNP, BsP
- B & M terminals: Inlay, Bs-Ag
- Case: blue PBT
- Bobbin: PBT
- Resin: epoxy

Mouser Stock No.	Nominal Coil		R Coil ($\Omega \pm 10\%$)
	VDC	IDC	
431-1205	5V	72mA	75
431-1206	6V	60mA	100
431-1212	12V	30mA	400



Bottom View



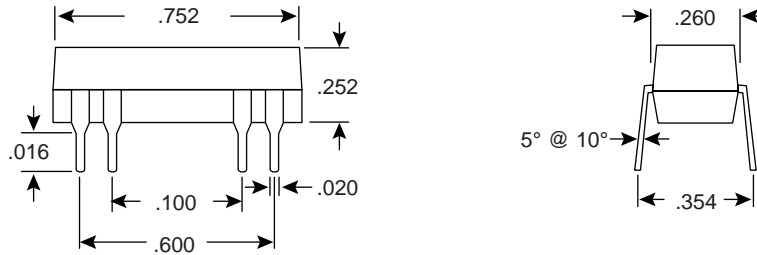
Circuit Diagram

Dimensions (In.)

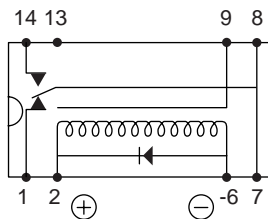
Specifications:

- Contact form: 1 form C
- Contact material: silver
- Rated carrying current: 1A
- Allowable voltage: 120VAC, 60VDC max.
- Allowable current: 1A max.
- Allowable power force: 60VA, 30W max.
- Contact resistance: 100mΩ max.
- Operate time: 5m sec. max.
- Release time: 5m sec max.
- Dielectric strength (coil~contact & Contact~contact): 500VAC 50/60Hz for 1 minute
- Insulation resistance: 100MΩ min. (500VDC)
- Maximum switching (on/off): mechanically, 300 ops per minute; electrically, 30 ops per minute
- Operating temperature: -25°C ~ +55°C
- Operating humidity: 45%~85% RH
- Life expectancy: mechanically, 50 million ops per minute (no load); electrically, 1 million ops. min. (@ rated coil voltage)
- Contact rating: 1A @ 24VDC or .5A @ 120VAC
- UL file no.: E156521

Mouser Stock No.	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω ±10%)	Must Operate Voltage (VDC max.)	Must Release Voltage (VDC min.)	Allowable Voltage (V max.)
431-1605	5	72	69	4.0	0.25	6
431-1606	6	60	100	4.5	0.3	7.2
431-1612	12	30	400	9	0.6	14.4



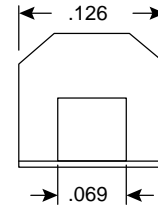
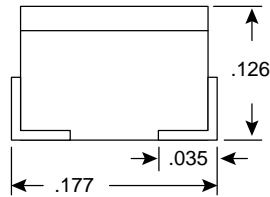
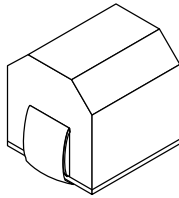
Dimensions (In.)



one step = .100

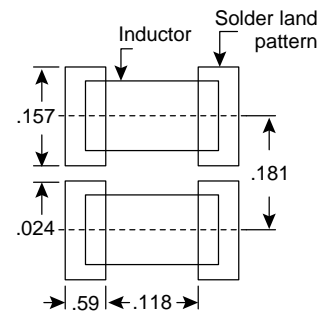
Specifications:

- Switching voltage: 100VDC max.
- Switching current: 250mA max.
- Carrying current: 1 amps max.
- Contact rating: 3W
- Rated voltage: 12VDC
- Coil resistance: $500\Omega \pm 10\%$
- Operate voltage: 8VDC
- Drop-out voltage: 2VDC
- Operating voltage: 150% nom.
- Weight: 2g
- Shocks: 50g
- Vibrations: 20g
- Dielectric strength -across contacts: 150VDC
-between coil & contacts: 1500VAC
- Insulation resistance -across contacts: $10^{10}\Omega$
-between coil & contacts: $10^{10}\Omega$
- Max. switching-on time (including bounces): 3ms
- Max. switching-off time: 3ms
- Life expectancy: mechanical 10^8 operations,
electrical @ rated load $2 \cdot 10^6$ operations
- Operating temperature: $-40^\circ\text{C} \sim +65^\circ\text{C}$
- Storage temperature: $-40^\circ\text{C} \sim +85^\circ\text{C}$
- Power consumption: 288mW
- Contact material: rhodium
- Initial contact resistance: $\leq 200\text{m}\Omega$



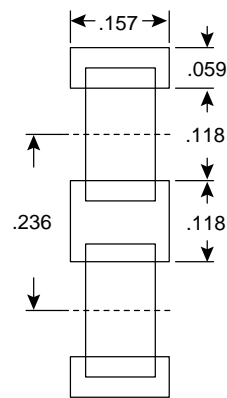
Dimensions (In.)

Mouser Stock No.	L (μF)	Q (min.)	Test Freq. (MHz)	SRF (MHz)	DCR Max. Ω	Rated DC (mA)	Tol. ±%
435-18-R10M	0.10	28	25.2	700	0.44	450	20
435-18-R15M	0.15	30	25.2	450	0.25	450	20
435-18-R22M	0.22	30	25.2	350	0.32	450	20
435-18-R33M	0.33	30	25.2	300	0.40	450	20
435-18-R47M	0.47	30	25.2	220	0.50	450	20
435-18-R68M	0.68	30	25.2	160	0.60	450	20
435-18-1R0M	1.0	50	7.96	100	0.50	450	20
435-18-1R2M	1.2	50	7.96	80	0.55	430	20
435-18-1R5M	1.5	50	7.96	70	0.60	410	20
435-18-1R8M	1.8	50	7.96	60	0.65	390	20
435-18-2R2M	2.2	50	7.96	55	0.70	380	20
435-18-2R7M	2.7	50	7.96	50	0.75	370	20
435-18-3R3M	3.3	50	7.96	45	0.80	355	20
435-18-4R7M	4.7	50	7.96	35	1.00	315	20
435-18-5R6M	5.6	50	7.96	33	1.10	300	20
435-18-6R8K	6.8	50	7.96	27	1.20	285	10
435-18-8R2K	8.2	50	7.96	25	1.40	270	10
435-18-100K	10	50	2.52	20	1.60	250	10
435-18-120K	12	50	2.52	18	2.00	225	10
435-18-150K	15	50	2.52	17	2.50	200	10
435-18-180K	18	50	2.52	15	2.80	190	10
435-18-220K	22	50	2.52	13	3.20	180	10
435-18-270K	27	50	2.52	12	3.60	170	10
435-18-330K	33	50	2.52	11	4.00	160	10
435-18-470K	47	50	2.52	10	5.00	140	10
435-18-560K	56	50	2.52	9	5.50	135	10
435-18-101K	100	40	0.796	7	8.00	110	10
435-18-151K	150	40	0.796	5	9.00	105	10
435-18-181K	180	40	0.796	5	9.50	102	10
435-18-221K	220	40	0.796	4	12.00	100	10
435-18-331K	330	30	0.796	3	20.00	85	10
435-18-471K	470	30	0.796	3	26.00	62	10
435-18-681K	680	30	0.796	2	40.00	50	10
435-18-102K	1000	30	0.796	2	50.00	30	10



Parallel

PC Board Patterns

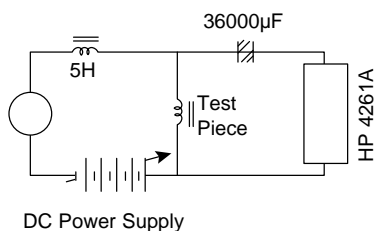


Series

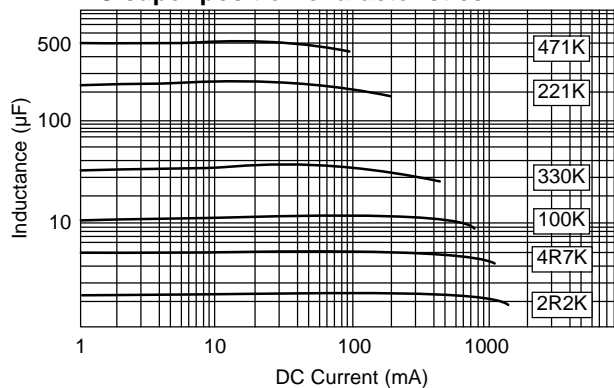
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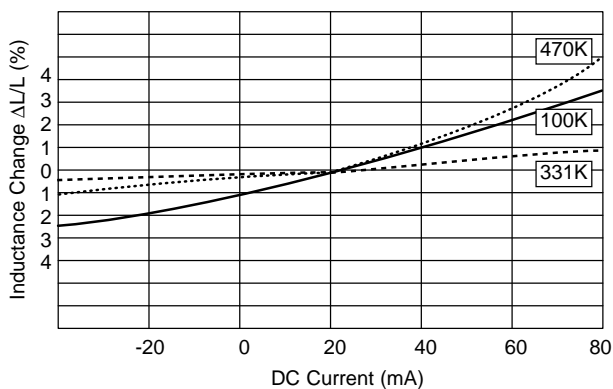
<http://www.mouser.com>



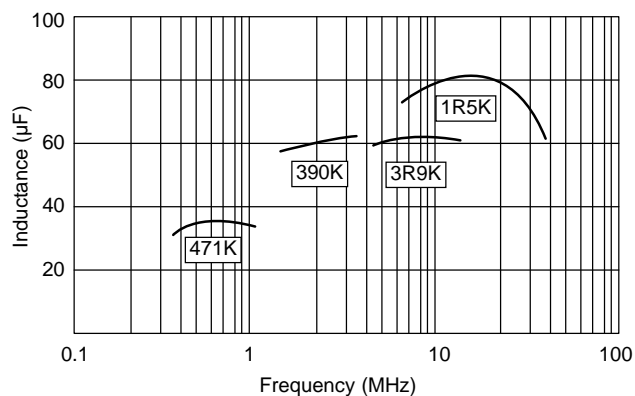
Inductance change-DC super position characteristics



Inductance change-temperature characteristics



Q-frequency characteristics



Specifications:

- Type: magnetic shielded chip
- Temperature rise: 20°C (360°F) max. (against ambient temperature)
- Ambient temperature: 80°C (176°F) max.
- Operating temperature: -20~ +100°C (-4~ +212°F) including self-temperature rise
- Storage temperature: -20~ +100°C (-4~ +212°F)
- Terminal tensile strength: 1kg min.
- Current rating: value obtained when current flows & temperature has risen to 20°C (36°F) or when LC current flows & the initial value of inductance has fallen by 10%, whichever is smaller
- Resistance to soldering heat: 260°C (500°F) for 10 seconds
- Resistance to solvent: conforms to MIL-STD-202E

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