

## Industrial 15/16" (24mm) diameter 1/2 watt composition variable resistor

The CTS 450 Stock Pot™ Program provides immediate off-the-shelf availability from select CTS distributors. The program offers a choice of 11 of the most commonly used resistance values, linear or 10% logarithmic tapers and 17 popular plug in shafts which can be quickly assembled.

- Off-the-shelf availability
- Choice of linear or 10% logarithmic tapers
- Wide resistance range
- $\pm 20\%$  resistance tolerance
- Available with four shaft styles: knurled and slotted, flatted or round, with a wide selection of lengths and styles. Generally eliminates the need for cutting or modification.
- Economical even in limited volume applications
- Supplied with mounting hardware



## Electrical and Mechanical Specifications

### Resistance Range

500 ohms through 1 Megohm

### Resistance Tolerance

Standard  $\pm 20\%$

### Power Rating, Watts

Through 10K ohms, 1/2 watt; above 100K ohms  
through 100K ohms, 1/3 watt; above 100K ohms,  
1/4 watt

### Voltage Rating

Bushing to terminals:  
High pot test, one minute — 1080 VAC  
Operating maximum — 750 VDC

### Shaft Information

Diameter: .250" (6.35mm)

### Angle of Rotation

Total Rotation: 300 degrees,  $\pm 5^\circ$   
Effective Rotation: approximately 300 degrees

### Bushing Information

Material: diecast zinc  
Diameter: EIA std.  $\frac{3}{8}$  – 32 UNEF-2A thread  
Length:  $\frac{3}{8}$ "  $\pm \frac{1}{64}$ " (9.53mm  $\pm$  0.39mm)  
Available with  $\frac{3}{8}$ " – 32 UNEF-2A thread only

### Terminal Information

Solder lug, PC formed to rear

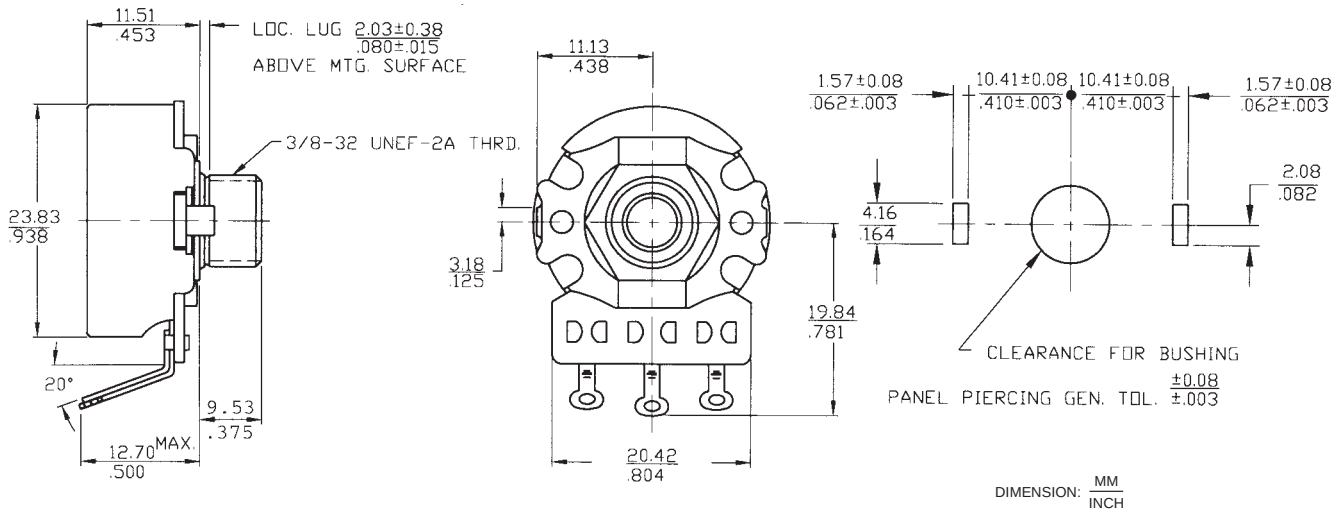
### Locating Lug

Left side, terminals down

### Optional Switch

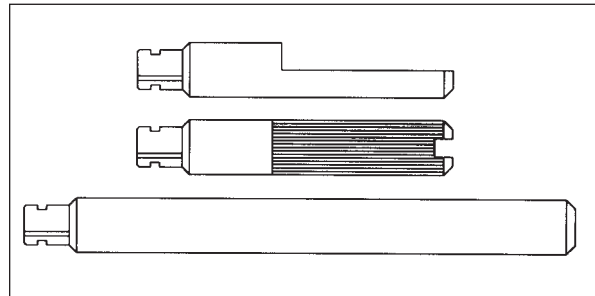
SPST rotary switch 050 is available with limited shaft and resistance options. See ordering information.

## CTS Type 450 Stock Pot™



### Plug In Shafts

Popular shaft styles are available with trim selections including screwdriver slot (.047" wide x .063" or 1.19mm x 1.60mm), flat (molded shaft flat is .156" wide x .500" long or 3.96mm x 12.7mm, brass shaft flat is .375" x .156" or 9.53mm x 3.69mm), knurled and slotted (diameter over knurl molded is .240" - .246" or 6.10 - 6.25 mm, brass is .231" - .241" or 5.87 - 6.12 mm), or full round.



See trim selections and shaft details in chart below.

### Ordering Information

**450 T A103 E M4 S**

#### TERMINAL STYLE

T - SOLDER LUG  
V - PC FORMED TO REAR

#### MOUNTING STYLE

B - 3/8" DIECAST BUSHING  
E - EAR MOUNT

#### SWITCH

BLANK - NO SWITCH  
S - SPST Rotary 050  
Switch is supplied with an assembled molded shaft.  
Shaft Option M5 Only

| RESISTANCE OHMS | LOG A TAPER | or | LINEAR D TAPER |
|-----------------|-------------|----|----------------|
| 500             | —           |    | D501           |
| 1K              | A102        |    | D102           |
| 2.5K            | A252        |    | D252           |
| 5K              | A502        |    | D502           |
| 10K             | A103        |    | D103           |
| 25K             | A253        |    | D253           |
| 50K             | A503        |    | D503           |
| 100K            | A104        |    | D104           |
| 250K            | A254        |    | D254           |
| 500K            | A504        |    | D504           |
| 1M              | A105        |    | D105           |

| BRASS             | MOLDED         |
|-------------------|----------------|
| B1 - 5/8" SD Slot | M1 - 1/2" K&S  |
| B2 - 3/4" SD Slot | M2 - 5/8" K&S  |
| B3 - 7/8" SD Slot | M3 - 3/4" K&S  |
| B4 - 1" SD Slot   | M4 - 7/8" K&S  |
| B5 - 3/4" Flat    | M5 - 1" K&S    |
| B6 - 7/8" Flat    | M6 - 7/8" Flat |
| B7 - 1" Flat      | M7 - 1" Flat   |
| B8 - 3/4" K&S     | M8 - 2" Round  |
| B9 - 7/8" K&S     |                |

Shaft M5 Required with Switch

### Order From:

**CTS CORPORATION, RESISTOR/ELECTROCOMPONENTS** / 1601 Mishawaka Street / Elkhart, Indiana 46514  
North America Toll Free (888) 287-4690 / (219) 296-6700 / FAX: (219) 293-1240 <http://www.ctscorp.com>

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(07) 8216145 / FAX: (07) 8417642.8110040