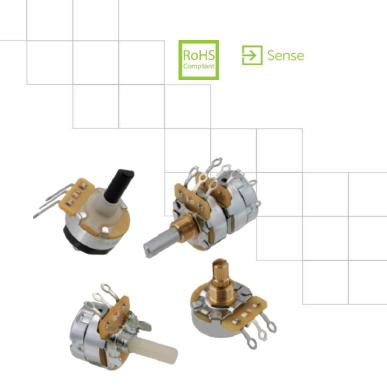
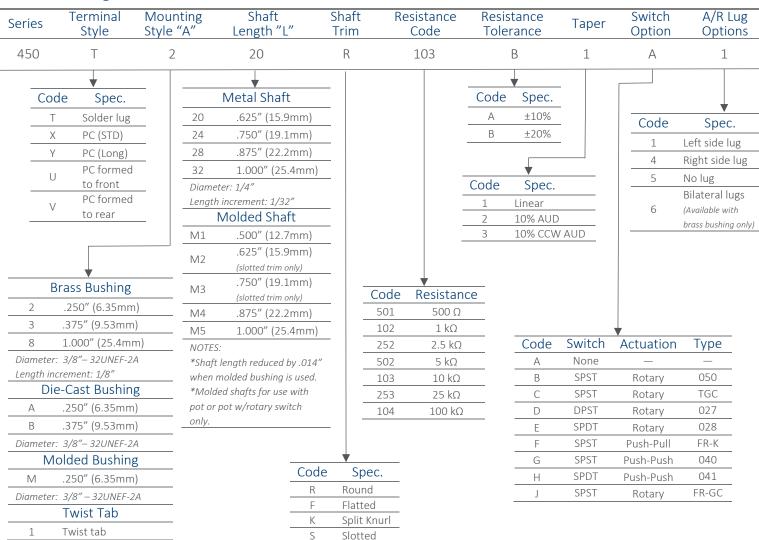


Series 450 24mm Rotary Potentiometer

- Versatile Mounting Styles
- Single, Tandem, and Concentric Options
- Power Switch Available
- Panel Seal Available
- Wide Resistance Range
- Low Noise Output
- Insulated and Metal Shaft Options



Ordering Information



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Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Decistores Bongs	Linear	100	10 Meg	Ω
Resistance Range	Audio	1k	1 Meg	Ω
	Standard	-30	+30	%
Resistance Tolerance	Special	-20	+20	%
	Special	-10	+10	%
Dielectric Strength	1 minute		1080	VAC
Davies Pating	@ 55°C, resistances ≤100 kΩ		1/2	watt
Power Rating	@ 55°C, resistances >100 kΩ		1/3	watt
Operating Voltage			750	VDC
Insulation Resistance	250 VDC	100		MΩ
Effective Electrical Angle			300	0

Mechanical and Environmental

Parameter	Conditions & Remarks	Min	Max	Unit
Operating Temperature Range	e	-10	+80	°C
	Standard	10,000		cycles
Rotational Life	Special	100,000		cycles
	Special	250,000		cycles
Machanical Angle	Push switch or no switch		300	0
Mechanical Angle	With rotary switch		320	0
Rotational Torque		54	432	gf-cm
Stop Strength		10.36		kgf-cm
Push-Pull Strength of Shaft:	10 kg for 10 seconds			
Soldering Condition:	Maximum temperature of 260°C for 5 seconds			
Packaging:	Standard cardboard box packaging			

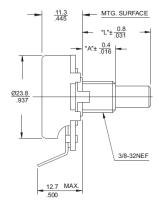
All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications.

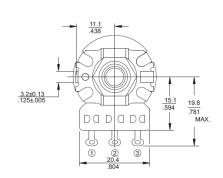
This product is compliant to RoHS3 Directive 2015/863 Amendments of Annex II on 31 March 2015, and REACH SVHC Directive EC 1907/2006 Amendments of Annex XIV & Annex XVII on 15 January 2018.

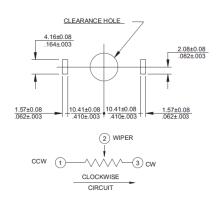
Custom and value-added options available on request. Please contact your sales representative for additional information.

Electrical and Mechanical Specifications

Series 450T Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals

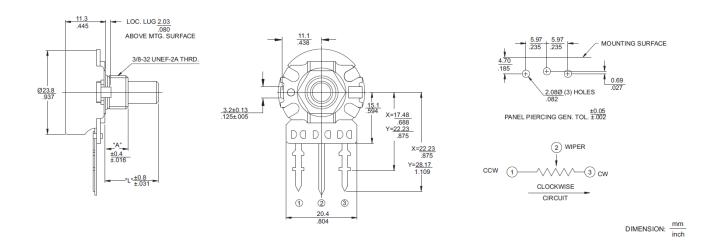




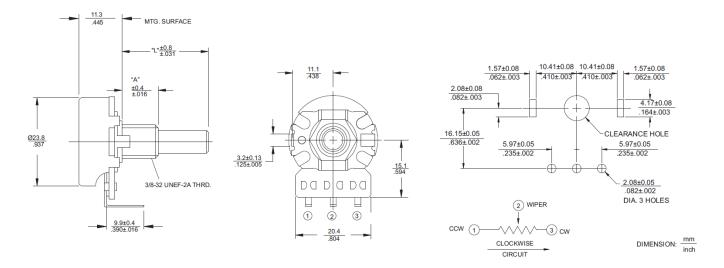


DIMENSION: mm inch

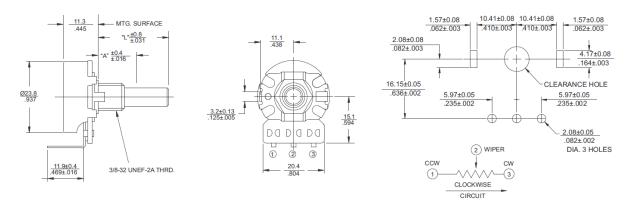
Series 450X/450Y Metal Shaft, Bushing Mount, Printed Circuit "X" or "Y" Type Terminals



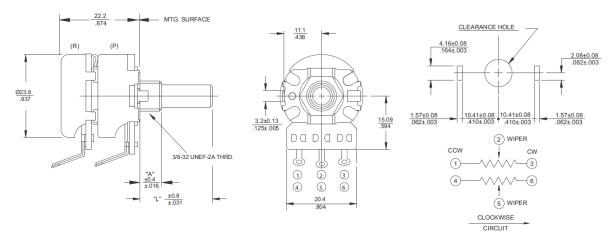
Series 450U Metal Shaft, Bushing Mount, Printed Circuit "U" Type Terminals



Series 450V Metal Shaft, Bushing Mount, Printed Circuit "V" Type Terminals



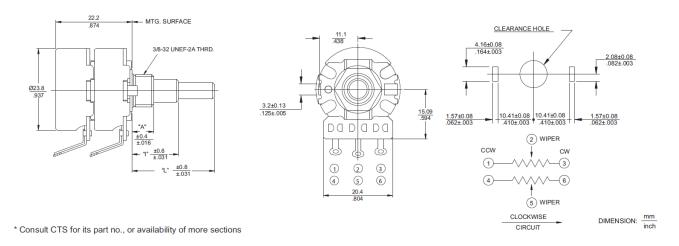
Series 450T-2 Metal Shaft, Dual Section, Bushing Mount, Solder Lug "T" Type Terminals



^{*} Consult CTS for its part no. or availability of more sections

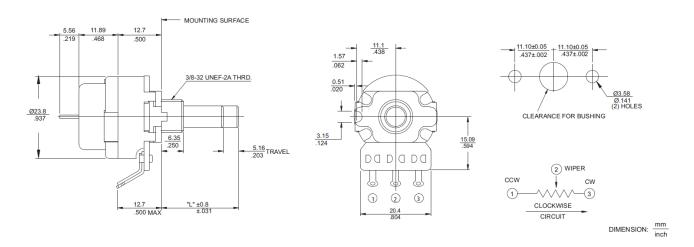
DIMENSION: mm inch

Series 450T-C2 Concentric Metal Shaft, Dual Section, Bushing Mount, Solder Lug "T" Type Terminals

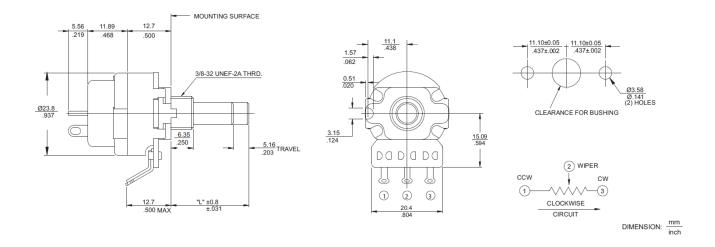


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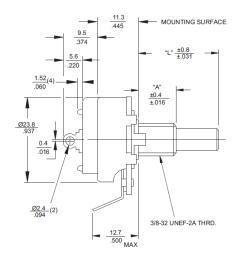
Series 450TM-x-G Molded Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 040 Switch Option



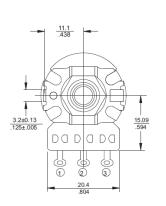
Series 450TM-x-H Molded Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 041 Switch Option

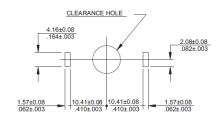


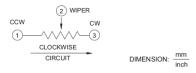
Series 450T-x-B Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 050 Switch Option



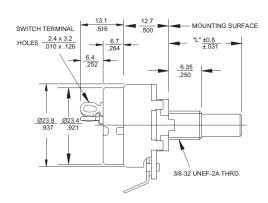
* Refer to Ordering Information for switch details

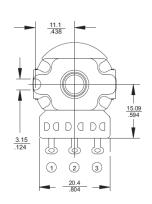


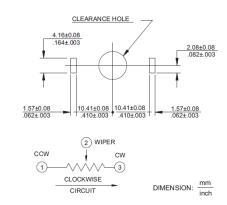




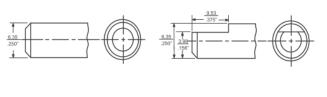
Series 450TM-x-C Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals, TGC Switch Option

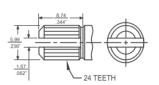


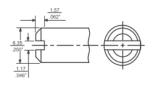




Shaft Diameter and Trim Options







R - Round

F - Flatted

K – Split Knurl

S – Slotted

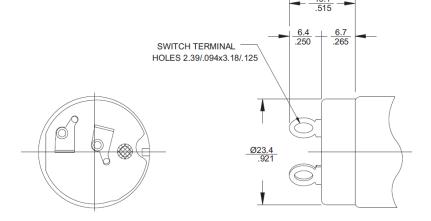
inch

Optional Power Switches

Series	Contact Arrangement	Electrical Rating	Outline Drawing
FR-GC	SPST Rotary	3 amps @ 125 volts, 1 amp @ 250 volts AC UL Recognized	<u> </u>
GC	SPST Rotary	5 amps @ 20 volts DC (Automotive)	SWITCH TERMINAL
Actuating A	Angle – 20°		HOLES 2.39/.094x3.18/.125
Actualing	Torque – 7 to 17 in. c (504 to 122	5 gf-cm)	Ø23.4 .921

TGC 6 amps @ 125 volts AC **SPST** UL & CSA Recognized Rotary

Actuating Angle - 20° Actuating Torque – 7 to 17 in. oz. (504 to 1225 gf-cm)

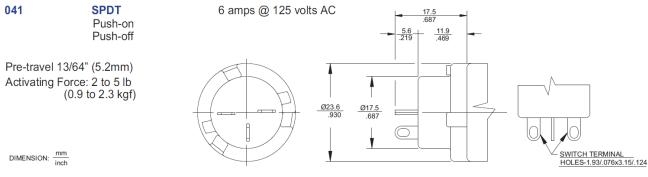


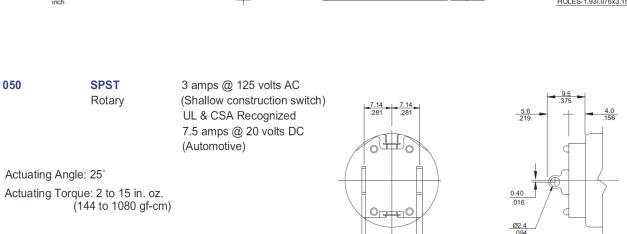
DIMENSION: mm inch

Optional Power Switches

DIMENSION: $\frac{mm}{inch}$

Series	Contact Arrangement	Electrical Rating	Outline Drawing
TV-023	SPST Rotary	TV-5 rating UL & CSA Recognized	- 13.1
Actuating A	ngle – 20°		<u>6.4</u> 6.7 .265
Actuating T	orque – 10 to 20 in. o (720 to 1441	z. gf-cm)	.250 .265
			Ø23.4 .921
MENOISH MM			SWITCH TERMINAL





Optional Power Switches

Series	Contact Arrangement	Electrical Rating	Outline Drawing

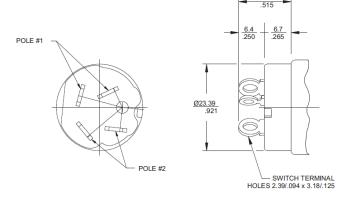
FR-027 DPST 3 amps @ 125 volts, Rotary 1 amp @ 250 volts AC

UL Recognized

Actuating Angle: 20°

Actuating Torque: 10 to 20 in. oz.

(720 to 1441 gf-cm)



DIMENSION: $\frac{mm}{inch}$

TV-020 DPST

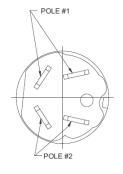
DPST 125 volts AC Pole #1, TV-1 rating Pole #2, TV-3 rating

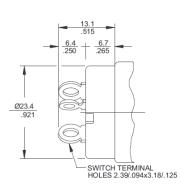
UL & CSA Recognized

Actuating Angle: 20°

Actuating Torque: 10 to 20 in. oz.

(720 to 1440 gf-cm)





 ${\color{red} {\sf DIMENSION:}} \ \frac{{\color{blue} {\sf mm}}}{{\color{blue} {\sf inch}}}$

TV-021

SPDT Rotary TV-4 rating UL Recognized

Actuating Angle: 20°

Actuating Torque: 10 to 20 in. oz.

(720 to 1440 gf-cm)

DIMENSION: mm

