

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

Series	Terminal Style	Moun Style '	ting "A"	Shaft Length "L"		Shaft Trim		sistance Code		stance rance	Taper	Switch Option	A/R Lug Options
450	Т	2		20		R		103		В	1	А	1
Code T X Y U V	Solder lug PC (STD) PC (Long) PC formed to front PC formed to rear		20 24 28 32 Diamete Length i	Metal Shaft .625" (15.9r .750" (19.1r .875" (22.2r 1.000" (25.4 er: 1/4" increment: 1/32" Molded Shaft .500" (12.7r .625" (15.9r	nm) nm) Imm) L nm)				Code A B Code 1 2 3	Spec. ±10% ±20% ✓ Spec. Linear 10% AUD 10% CCW		Code 1 4 5 6	Spec. Left side lug Right side lug No lug Bilateral lugs (Available with brass bushing only)
2	ass Bushing 250″ (6.35mm) 375″ (9.53mm)		M3 M4 M5	(slotted trim on .750" (19.1r (slotted trim on .875" (22.2r	nm) /// nm)	-	Code 501 102	Resistan 500 Ω 1 kΩ	се				
8 1	.000" (25.4mm	ו)	NOTES:	1.000" (25.4	ŧrmm)	-	252	2.5 kΩ		Code	Switch	Actuation	Туре
Diameter: 3	2/8″– 32UNEF-2A			ength reduced by	.014″		502	5 kΩ		A	None	_	_
Length incre				olded bushing is			103	10 kΩ		В	SPST	Rotary	050
	Cast Bushing	, 		d shafts for use v			253	25 kΩ		С	SPST	Rotary	TGC
	250" (6.35mm)		' '	ot w/rotary swite	ch		104	100 kΩ		D	DPST	Rotary	027
	375" (9.53mm)		only.							Ε	SPDT	Rotary	028
	/8″– 32UNEF-2A					\perp				F	SPST	Push-Pull	FR-K
Mol	ded Bushing			-	Code	V				G	SPST	Push-Push	040
M .2	250" (6.35mm)			-	R	Sp Roun				Н	SPDT	Push-Push	041
	2/8" – 32UNEF-24	4		-	F	Flatte				J	SPST	Rotary	FR-GC
	wist Tab			-	K S	Split Slotte	Knurl						

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Electrical Specifications

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

Mechanical and Environmental

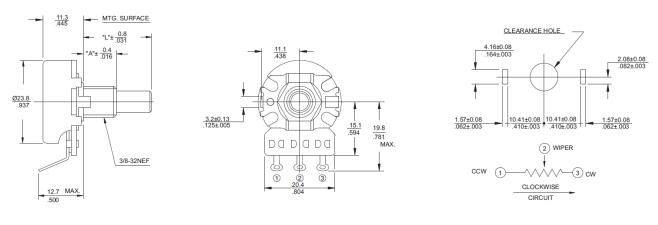
Parameter	Conditions & Remarks	Min	Max	Unit		
Operating Temperature Range	e	-10	+80	°C		
	Standard	10,000		cycles		
Rotational Life	Special	100,000		cycles		
	Special	250,000		cycles		
Machanical Angla	Push switch or no switch		300	0		
Mechanical Angle	With rotary switch		320	0		
Rotational Torque		54	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



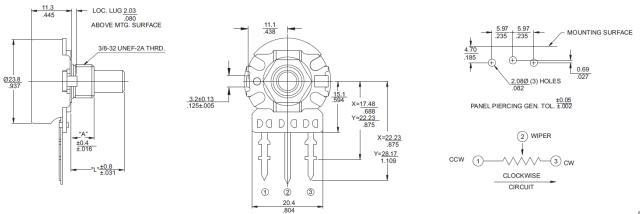
DIMENSION: mm

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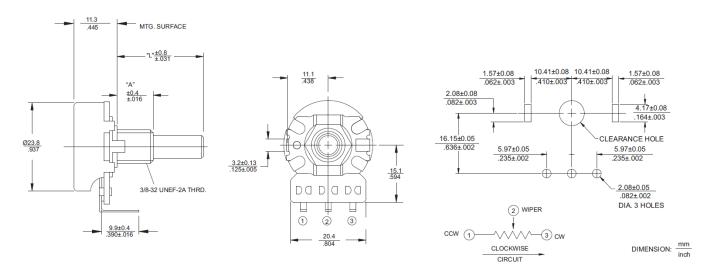
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Series 450X/450Y Metal Shaft, Bushing Mount, Printed Circuit "X" or "Y" Type Terminals



DIMENSION: mm inch

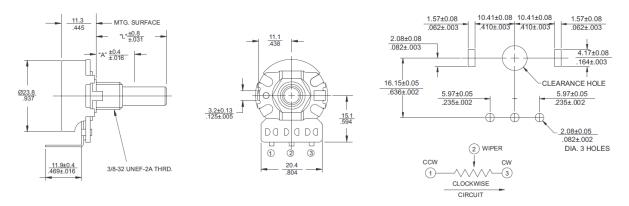
Series 450U Metal Shaft, Bushing Mount, Printed Circuit "U" Type Terminals



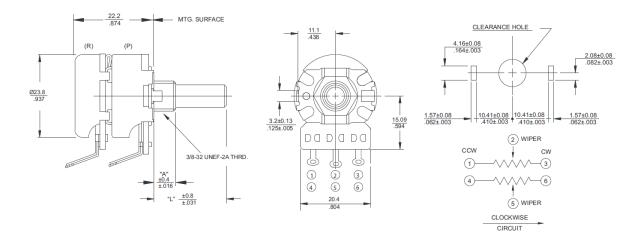
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Series 450V Metal Shaft, Bushing Mount, Printed Circuit "V" Type Terminals



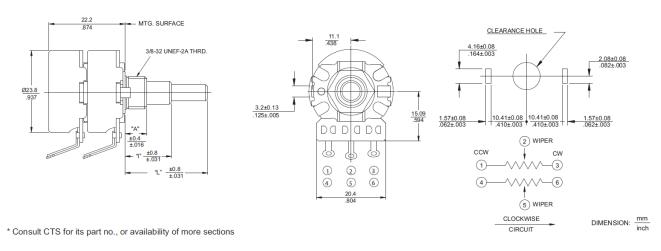
Series 450T-2 Metal Shaft, Dual Section, Bushing Mount, Solder Lug "T" Type Terminals



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

DIMENSION: mm

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

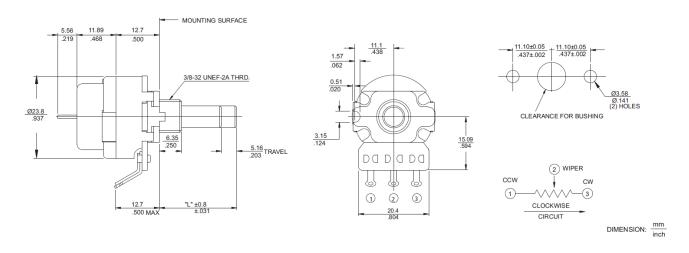


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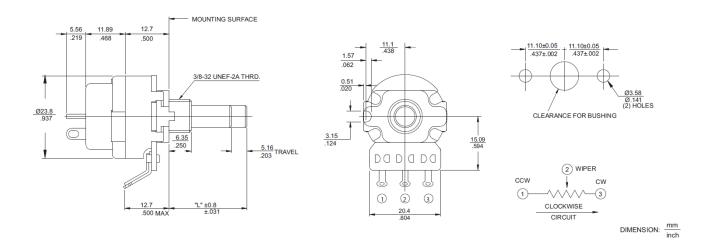
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Series 450TM-x-G Molded Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 040 Switch Option



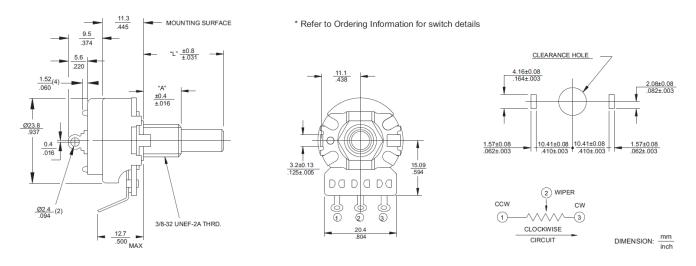
Series 450TM-x-H Molded Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 041 Switch Option



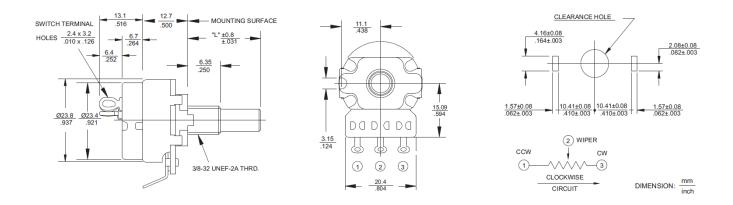
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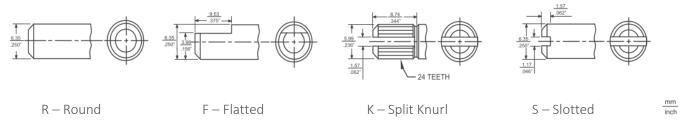
Series 450T-x-B Metal Shaft, Bushing Mount, Solder Lug "T" Type Terminals, 050 Switch Option



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



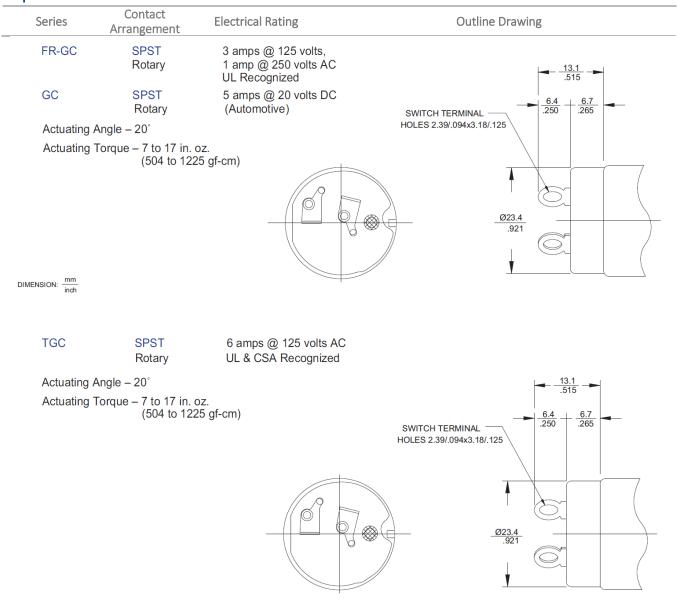
Shaft Diameter and Trim Options



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Optional Power Switches

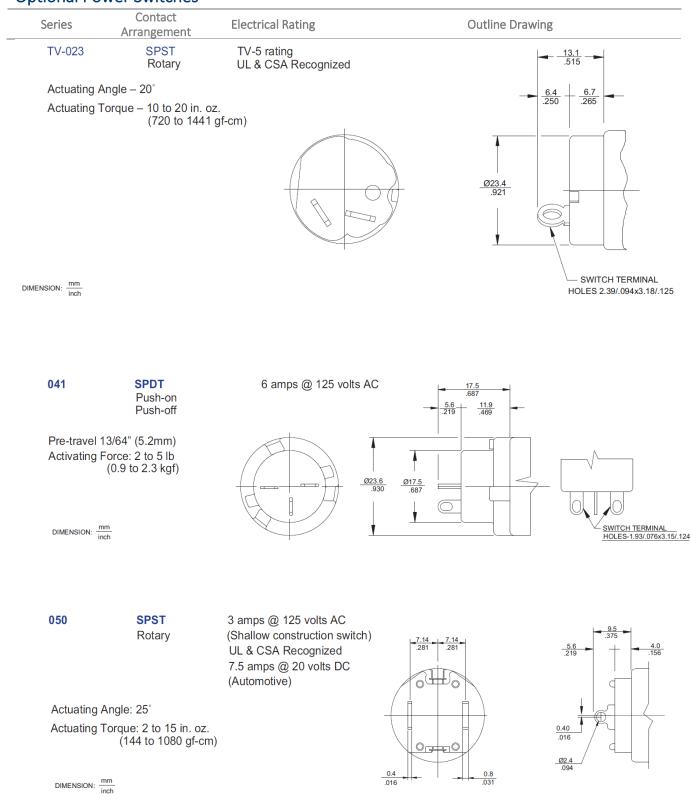


DIMENSION: mm

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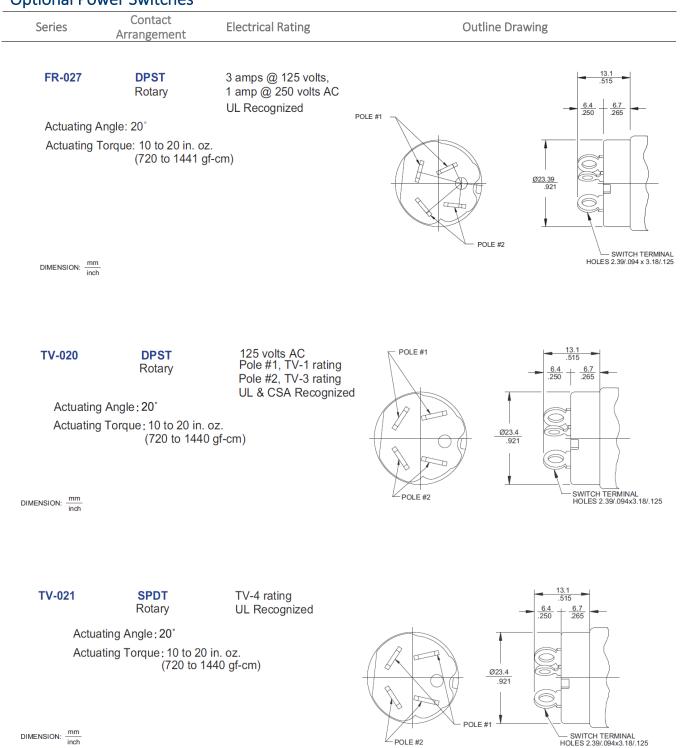
Optional Power Switches



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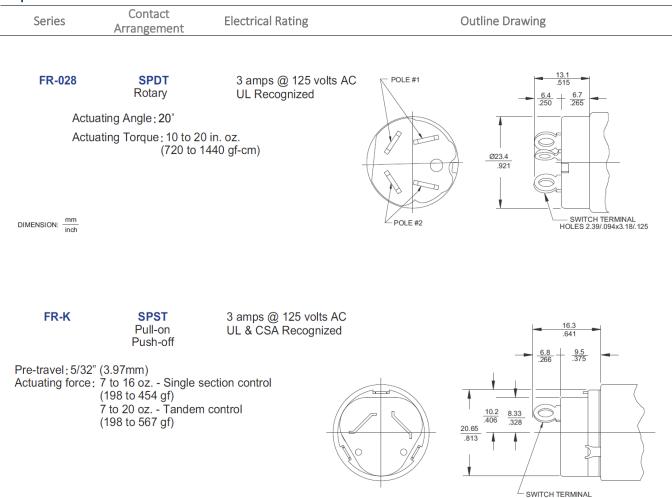


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Optional Power Switches



DIMENSION: mm inch

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HOLES 2.39/.094 X 3.18/.125