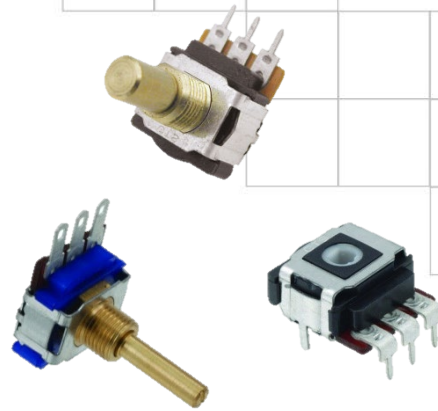




Series 280

18mm Rotary Potentiometer

- 18mm Compact size
- 100k and 500k Cycle Life Options
- 2% Precision Linearity Option Available
- Wide Resistance Range
- Panel Seal Available
- Single, Dual, and Concentric Options
- Low Noise Output



Ordering Information

Series	Terminal Style	Mounting Style "A"	Shaft Length "L"	Shaft Trim	Resistance Code	Resistance Tolerance	Taper	Linearity	Detent Option
280	X	2	20	R	103	B	1	5	1

Code	Spec.
T	Solder lug
X	PC
V	PC formed to rear

Metal Shaft	
20	.625"
24	.750"
28	.875"
32	1.000"

Code	Spec.
A	±10%
B	±20%
C	±30%

Code	Spec.
5	±5%
3	±3%
2	±2%
N	Non-linear output only

Brass Bushing	
2	.250"
3	.375"
8	1.000"

<i>Diameter: .250"</i>	
<i>Length increment: 1/32"</i>	
A0	10mm
A5	15mm
B0	20mm
B5	25mm
C0	30mm
C5	35mm

Code	Spec.
501	500 Ω
102	1 kΩ
252	2.5 kΩ
502	5 kΩ
103	10 kΩ
253	25 kΩ
503	50 kΩ
104	100 kΩ

Code	Spec.
1	Linear
2	10% Audio
3	10% CCW Audio

<i>Diameter: 3/8"-32UNEF-2A</i>	
<i>Length increment: 1/32"</i>	
A	5.0mm
B	6.35mm
C	7.0mm
D	9.5mm

<i>Diameter: 6mm</i>	
<i>Length increment: 5mm</i>	
Plastic Rotor	
00	Plastic rotor (280V-SPL only)

Code	Spec.
1	None
2	Center detent (Not available on 280V-SPL)

<i>Diameter: M8 x .75P</i>	
Y	4.8mm
<i>Diameter: M7 x .75P</i>	
Bracket Mount	
0	Ear Mount (280V-SPL only)

Code	Spec.
R	Round
F	Flatted
K	Split Knurl
S	Slotted
O	Shaftless (280V-SPL only)

Electrical Specifications

Parameter	Conditions & Remarks	Min	Max	Unit
Resistance Range	Linear	500	5 Meg	Ω
	Audio	5k	500k	Ω
Resistance Tolerance	Standard	-30	+30	%
	Special	-20	+20	%
	Special	-10	+10	%
Power Rating	@ 55°C		0.25	watt
Dielectric Strength	1 minute		750	VAC
Insulation Resistance	250 VDC	100		MΩ
Maximum Operating Voltage			500	VDC
Linearity	Standard	-5	+5	%
	Special	-3	+3	%
	Special	-2	+2	%

Mechanical and Environmental

Parameter	Conditions & Remarks	Min	Max	Unit
Operating Temperature Range		-10	+80	°C
Rotational Life	Standard	10,000		cycles
	Special	100,000		cycles
	Special	250,000		cycles
	Special	500,000		cycles
Mechanical Angle			300	°
Rotational Torque		36	216	gf-cm
Stop Strength		5.76		kgf-cm
Push-Pull Strength of Shaft:	8 kg for 10 seconds			
Soldering Condition:	Maximum temperature of 260° for 5 seconds			
Mounting Information:	Bushing mount on panel			
	Bracket mount on PCB			
Packaging:	Standard tray 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

Shaft Diameter and Trim Options

R – Round

	X
Imperial Shaft	.250"
Metric Shaft	6.00

F – Flatted

	X	Y	Z
Imperial Shaft	.250"	.156"	.375"
Metric Shaft	6.00	4.50	7.00

K – Split Knurl

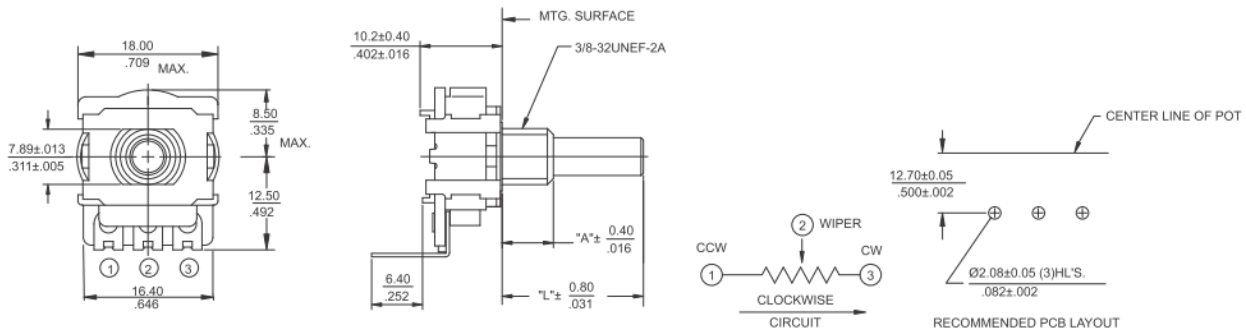
	W	X	Y	Z
Imperial Shaft	.250"	.062"	.344"	24 TEETH
Metric Shaft	6.00	1.57	7.0	18 TEETH

S – Slotted

	X	Y	Z
Imperial Shaft	.250"	.046"	.062"
Metric Shaft	6.00	1.17	1.57

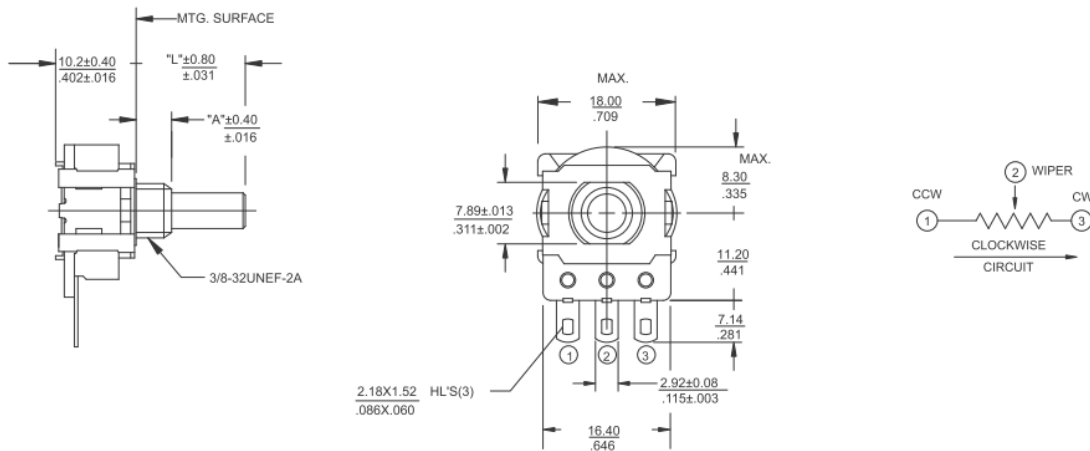
Electrical and Mechanical Specifications

Series 280V Metal Shaft, Bushing Mount, Printed Circuit "V" Type Terminals



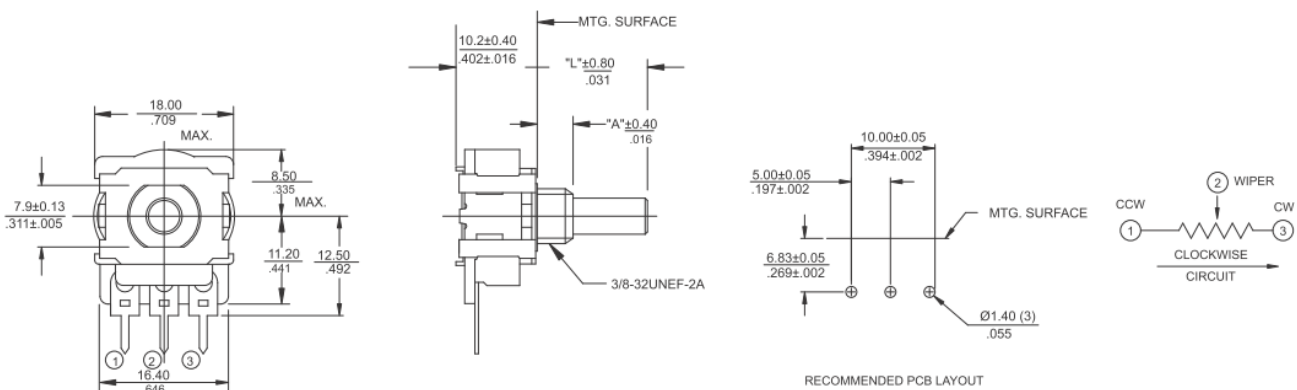
DIMENSION: $\frac{\text{mm}}{\text{INCH}}$

Series 280T Metal Shaft, Bushing Mount, "T" Type Solder Lug Terminals



DIMENSION: $\frac{\text{mm}}{\text{INCH}}$

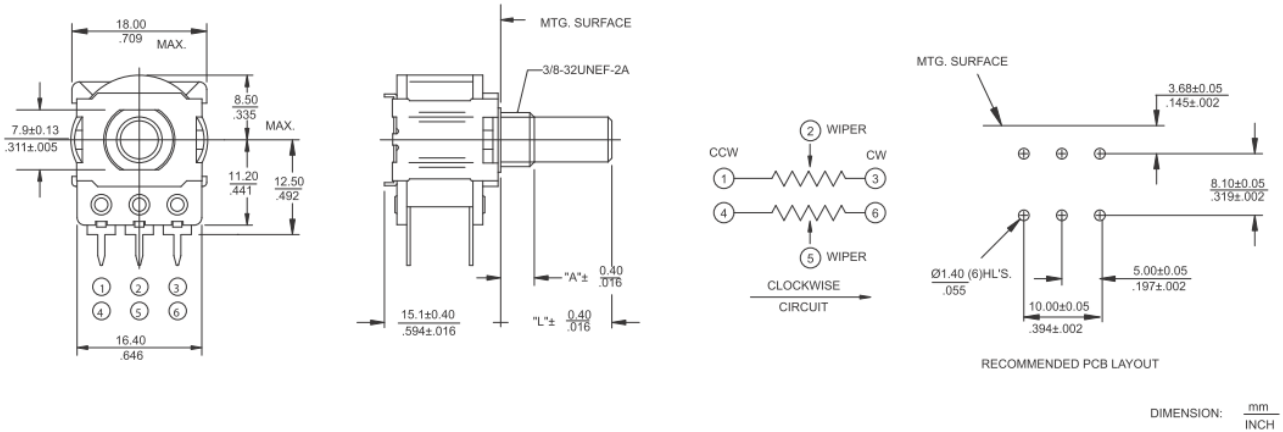
Series 280X Metal Shaft, Bushing Mount, Printed Circuit "X" Type Terminals



DIMENSION: $\frac{\text{mm}}{\text{INCH}}$

Electrical and Mechanical Specifications

Series 280X-X2 Dual Section, Metal Shaft, Bushing Mount, Printed Circuit "X" Type Terminals



Series 280V-SPL Through Hole, Plastic Rotor, Printed Circuit "V" Type Terminals, Continuous Rotation

