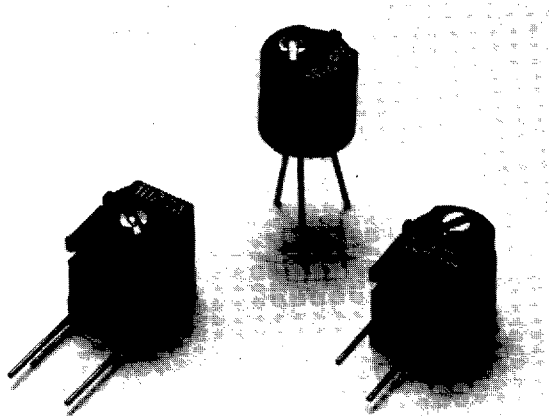


Model TM-7

Multiturn Trimming Potentiometer
7 mm Round, Cermet



Features
Multiturn Trimmer in Compact Size

Sealed to Allow for Automatic Processing

Precious Metal Contact

Part Number

Model _____ **TM7** _____ **P** _____ **102** _____
Pin Style _____
Resistance Code _____

Marking
Units Marked With Resistance Code and Date Code

Packaging
Bulk Pack

Standard Resistance Values and Codes			
Ω	Code	Ω	Code
50	500	20 K	203
100	101	50 K	503
200	201	100 K	104
500	501	200 K	204
1 K	102	500 K	504
2 K	202	1 M	105
5 K	502	2 M	205
10 K	103		

SPECIFICATIONS

Electrical	
Resistance Range	: 50 Ohms to 2 Meg. Ohms
Resistance Tolerance	: ± 10% Standard
Temp. Coeff. Of Resistance	: 50 Ohms to 2 Meg. ± 100 ppm/°C
Power Rating	: 1/2 Watt at 70°C
Operating Voltage Max.	: 300 VDC or Power Rating, whichever is less.
Wiper Current Max.	: 100 mA or power rating, whichever is less.
Electrical Angle	: 2½ Turns Nominal
Electrical Continuity	: Continuous over full mechanical range.
End Resistance	: 1% or 2 Ohms, whichever is greater.
Resolution	: Essentially infinite.
Contact Resistance Variation	: 1% or 3 Ohms, whichever is greater.
Operating Temp. Range	: -55°C to +125°C.
Insulation Resistance, Min.	: Min 1000 Meg. at 500 VDC for 2 minutes.
Dielectric Strength	: 900 VAC rms, 1 minute, 1 milliamp max.

Mechanical	
Mechanical Angle	: 3 turns nominal
Operating Torque	: 200 gram-cm (2.78 Oz-in.) max.
Stop Strength, Min.	: Not Applicable. Wiper Idles
Terminal Strength, Min.	: 1 Kg (MIL-R-22097)
Rotational Life	: 200 cycles (▲ R/R ≤ 2 Ω + 3%)
Solderability	: Mil-Std-202, Method 208

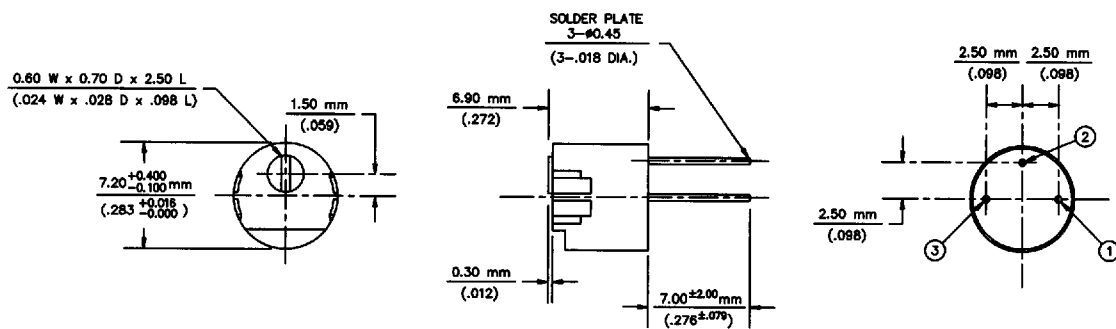
Environmental (MIL-R-22097)	
Thermal Shock: (-65°C to 125°C)	▲ R/R ≤ 1.00% ▲ SS ≤ 1.00%
Humidity: (80 ~ 98% RH, 240 Hrs.)	▲ R/R ≤ 2.00%
Mech. Shock: (100 g)	▲ R/R ≤ 1.00% ▲ SS ≤ 1.00%
Vibration: (20 g, 10 to 2000 Hz.)	▲ R/R ≤ 1.00% ▲ SS ≤ 1.00%
Low Temp. Operation: (-55°C, 2 Hrs.)	▲ R/R ≤ 2.00% ▲ SS ≤ 2.00%
High Temp. Exposure: (125°C, 250 Hrs.)	▲ R/R ≤ 3.00% ▲ SS ≤ 2.00%
Load Life: (70°C, 0.50 W, 1000 Hrs.)	▲ R/R ≤ 3.00% ▲ SS ≤ 1.00%
Soldering Heat: (350°C, 3 Sec.)	▲ R/R ≤ 1.00%
Immersion:	Fluorocarbon Liquid, 85°C, 1 min. No Leaks

TM-7

Multitum Sealed Cermet

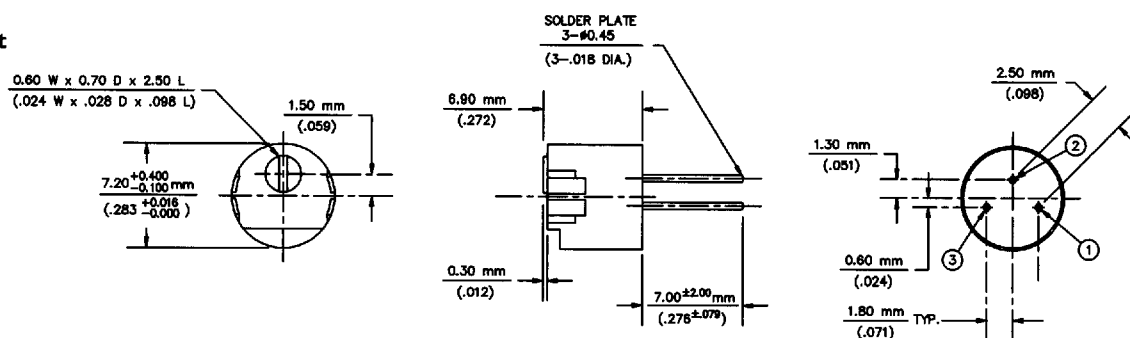
TM-7P

Top Adjust



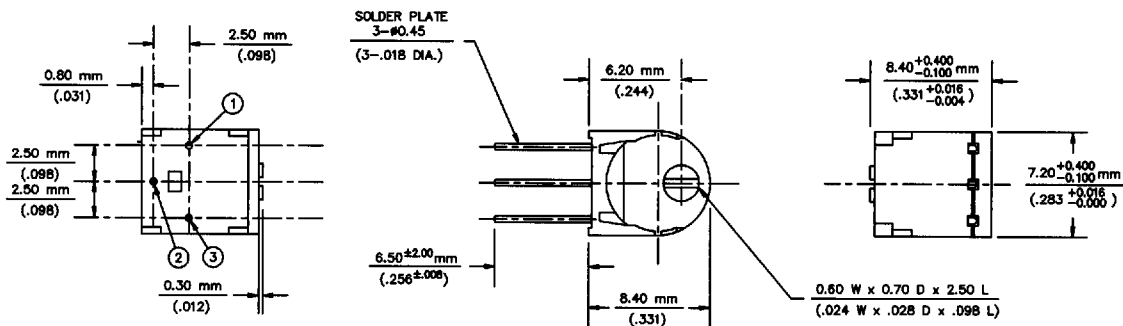
TM-7W

Top Adjust



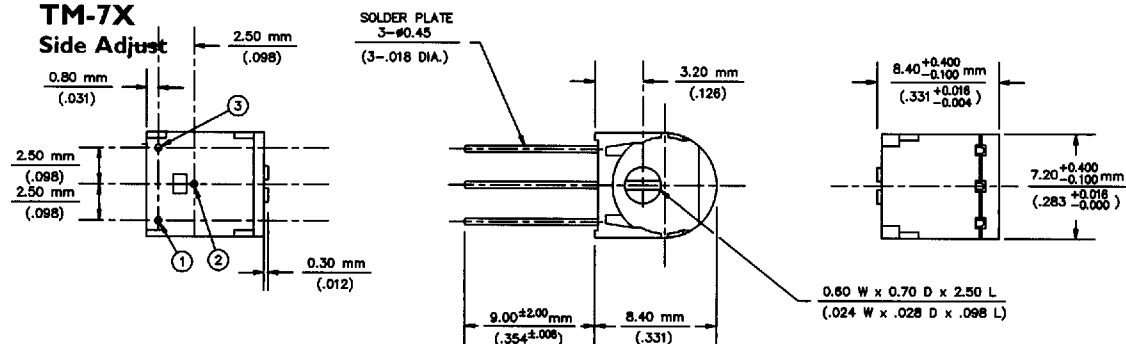
TM-7S

Side Adjust



TM-7X

Side Adjust



Mouser Electronics

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[TM7-S503](#)