

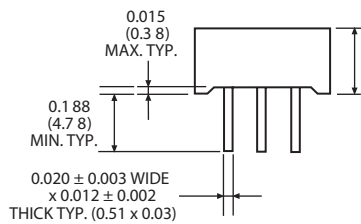
Potentiometers

Square Single-Turn Cermet Trimmer

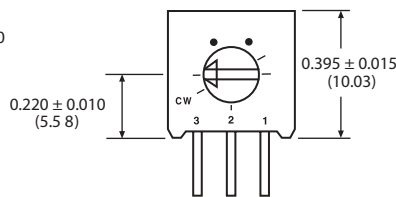
GP59 Series



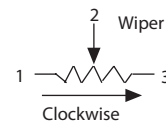
The Model GP59 Series cermet trimmer manufactured in Europe is readily available in several pin configurations for top or side adjustment and with a choice of Knob styles for finger setting. Quick adjustment is achieved with multi finger wiper and the standard resistance range is between 100Ω and 2 MΩ with a tolerance of ± 10 %. This fully sealed single turn trimmer is continuing to provide excellent performance as the industry standard across a broad spectrum of applications.



0.190 ± 0.010 (4.83)

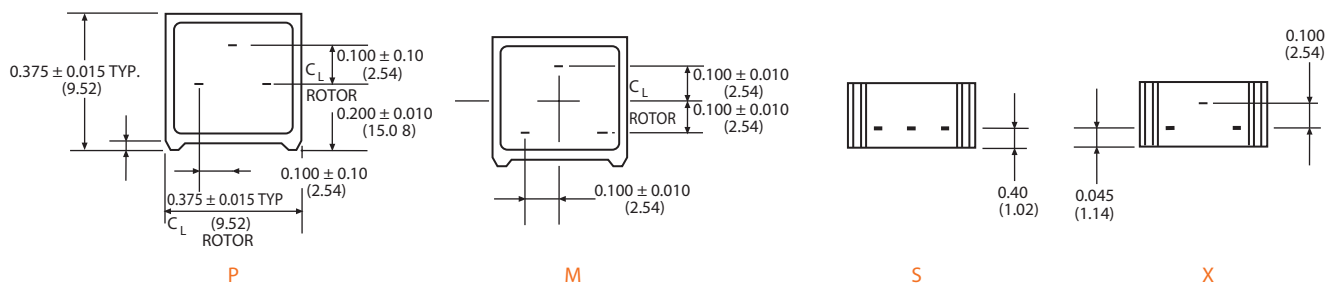


CIRCUIT DIAGRAM

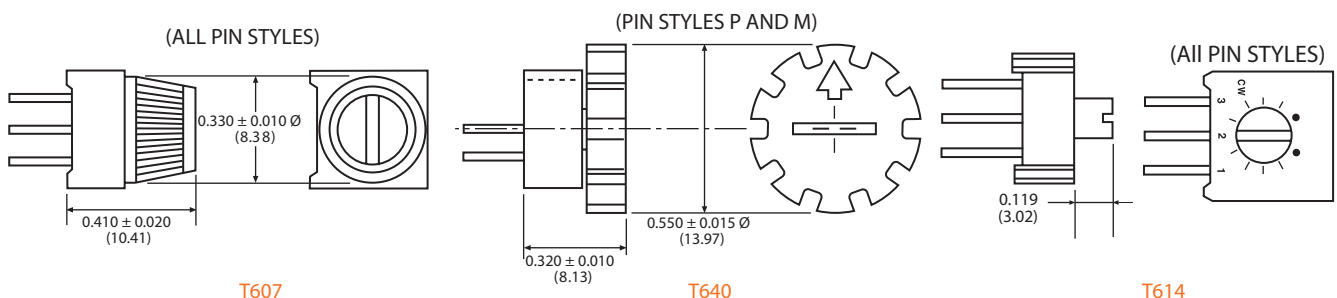


Dimension in inches (mm)

PIN STYLE



SPECIAL



Tolerances unless otherwise specified ± 0.015 (0.38)

How to order

GP59 1 2 3 4 5

- 1 STYLE:**
P See above drawings
M See above drawings
S See above drawings
X See above drawings

- 2 OHM VALUE:**
free text 100Ω to 2MΩ

- 3 TOLERANCE:**
10 Tolerance=10%

- 4 SPECIAL NUMBER:**
T607 See above drawings
T640 See above drawings
T614 See above drawings

- 5 PACKING:**
BK2 Box 200 pieces
BK1 Box 100 pieces

FEATURES

- > Arrow and graduations for repeatable settings
- > "O" ring seal for solvent and aqueous washing
- > I.C. style pins for easy PCB assembly
- > Rigid board mounting achieved with pins secured in housing
- > Solder plated terminals for good solderability
- > High temperature soldered terminations for high reliability
- > Multi-finger wiper for better contact resistance
- > Solid end stop
- > Test according to CECC41000



RoHS
COMPLIANT

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	
Effective Travel	270° nominal
Resistance Range	100 Ω to 2 M Ω
Resistance Tolerance	± 10 %
End Resistance	2 Ω or 1 %, whichever is greater
Temperature Coefficient of Resistance (Typical)	100 ppm/°C
Power Rating	0.5 W at 70 °C derated linearly to 0 W at 125 °C Maximum voltage not to exceed 250 V
Dielectric Withstanding Voltage	1000 V _{AC} at sea level; 250 V _{AC} at 80 000 ft (24 000 meters)
Insulation Resistance (500 V _{DC})	1000 M Ω minimum
Contact Resistance Variation	1 % or 1 Ω, whichever is greater

MECHANICAL SPECIFICATIONS	
Stop Strength	Solid
Starting Torque	35 mNm maximum
Weight	0.03 oz. (0.85 g) maximum
Resistance Element	Cermet
2 Terminal Adjustability	± 0.15 % of RT
3 Terminal Adjustability	± 0.05 % of applied voltage

ENVIRONMENTAL SPECIFICATION	
Temperature Range	- 55 °C to + 125 °C
Climatic Category	55/125/21
Sealing	Fully sealed container IP67

PERFORMANCES						
TEST	CONDITIONS	MAX. (R)	CHANGE PER CECC		PER IEC	PER MIL
			$\frac{V_{AB}}{V_{AC}}$	41 100		
Bumps	390 m/s ² , 4000	1 %	-	(PARA 2.3.3)	TEST EB (IEC 68 - 2 - 29)	NO EQUIV
Vibration	98 m/s ² , 10 to 500 Hz	1 %	2 %	(PARA 2.3.2)	TEST FC (IEC 68 - 2 - 6)	METHOD 204
Electrical Endurance	1000 h	3 %	-	(PARA 2.5.16)	-	NO EQUIV
Soldering	-	-	-	(PARA 2.3.7)	TEST TB (IEC 68 - 2 - 20)	METHOD 208
Resistance to Heat	-	1 %	-	(PARA 2.3.7)	TEST TB (IEC 68 - 2 - 20A)	METHOD 210
Damp Heat Steady State	21 days	3 %	-	(PARA 2.1)	TEST C (IEC 68 - 2 - 3)	METHOD 103
Mechanical Life	200 cycles	3 %	-	-	METHOD 2	-
Terminal Strength	2.2 lbs (1 kg)	min.	-	-	-	-