



Features

- Servo mount style
- Shaft supported by front and rear precision ball bearings
- Non-standard features and specifications available
- Gangable up to 10 cups

6574 - Precision Potentiometer

Electrical Characteristics¹

Standard Resistance Range.....	1 K to 100 K ohms
Total Resistance Tolerance	±10 %
Independent Linearity	±0.25 %
Effective Electrical Angle	350 ° ±2 °
End Voltage	0.1 % maximum (0.2 % at 2 K ohms, 0.4 % at 1 K ohms)
Output Smoothness	0.1 %
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
Sea Level	1,000 VAC minimum
Power Rating (Voltage Limited By Power Dissipation or 350 VAC, Whichever is Less)	
+70 °C.....	2 watts
+125 °C.....	0 watt
Insulation Resistance (500 VDC).....	1,000 megohms minimum
Resolution	Essentially infinite

Environmental Characteristics¹

Operating Temperature Range.....	+1 °C to +125 °C
Storage Temperature Range.....	-65 °C to +125 °C
Temperature Coefficient Over Storage Temperature Range.....	±500 ppm/°C maximum
Vibration	15 G
Wiper Bounce.....	0.1 millisecond maximum
Total Resistance Shift	±2 % maximum
Shock	60 G
Wiper Bounce.....	0.1 millisecond maximum
Load Life	1,000 hours, 1.5 watts
Total Resistance Shift	±10 % maximum
Rotational Life (No Load)	25,000,000 shaft revolutions
Total Resistance Shift	±10 % maximum
Moisture Resistance (MIL-STD-202, Method 103, Condition B)	
Total Resistance Shift	±10 % maximum
IP Rating	IP 40

Mechanical Characteristics¹

Mechanical Angle	Continuous
Torque (Starting & Running).....	0.53 N-cm (0.75 oz.-in.) maximum
Shaft Runout.....	0.025 mm (0.001 in.) T.I.R.
Shaft End Play	0.08 mm (0.003 in.) T.I.R.
Shaft Radial Play	0.08 mm (0.003 in.) T.I.R.
Pilot Diameter Runout	0.025 mm (0.001 in.) T.I.R.
Lateral Runout	0.08 mm (0.003 in.) T.I.R.
Backlash	0.1 ° maximum
Weight.....	89 gm
Terminals.....	Side exit turret terminals
Soldering Condition.....	Recommended hand soldering using Sn95/Ag5 no clean solder, 0.025 " wire diameter. Maximum temperature 399 °C (750 °F) for 3 seconds. No wash process to be used with no clean flux.
Marking	Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, and date code.
Ganging (Multiple Section Potentiometers).....	10 cup maximum
Hardware	No hardware included

¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.

Recommended Part Numbers

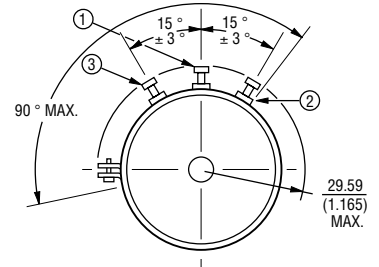
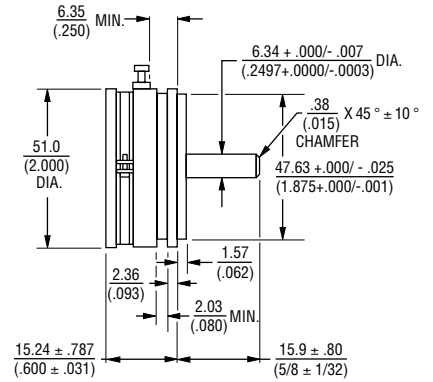
Part Number*	Resistance (Ω)
6574S-1-102	1,000
6574S-1-502	5,000
6574S-1-103	10,000

BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION.

FOR OTHER OPTIONS CONSULT FACTORY.

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Product Dimensions



TOLERANCES: EXCEPT WHERE NOTED
DECIMALS: XX ± $\frac{.51}{.02}$, XXX ± $\frac{.13}{.005}$
FRACTIONS: ±1/64
DIMENSIONS: $\frac{MM}{(IN.)}$

