

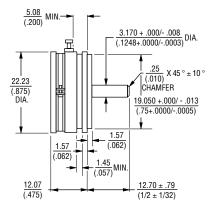
Features

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

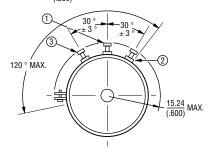
6534 - 7/8 " (22 mm) Precision Potentiometer

Wave Soldering	Electrical Characteristics ¹	
### Effective Electrical Angle	Total Resistance Tolerance	±10 %
Dielectric Withstanding Voltage (MIL-STD-202, Method 301) Sea Level	Effective Electrical Angle End Voltage	0.1 % maximum (0.25 at 2 K ohms, 0.4 % at 1 K ohm)
# 1 0 °C	Dielectric Withstanding Voltage (MIL-STD Sea Level	-202, Method 301) 750 VAC minimum
Insulation Resistance (500 VDC)	+70 °C	1 watt
Derating Temperature Range	nsulation Resistance (500 VDC)	1,000 megohms minimum
Storage Temperature Range	Environmental Characteristics ¹	
Temperature Coefficient Over Storage Temperature Range		
Wiper Bounce	emperature Coefficient Over Storage Ten	nperature Range±500 ppm/°C maximum
Wiper Bounce	Wiper BounceTotal Resistance Shift	
Rotational Life (No Load)		
Total Resistance Shift	Rotational Life (No Load) Total Resistance Shift	25,000,000 shaft revolutions±10 % maximum
Mechanical Angle Continuous Forque (Starting & Running) 0.18 N-cm (0.25 ozin.) maximum Shaft Runout 0.025 mm (0.001 in.) T.I.R .ateral Runout 0.05 mm (0.002 in.) T.I.R Shaft Radial Play 0.08 mm (0.003 in.) T.I.R Shaft Radial Play 0.08 mm (0.001 in.) T.I.R Pilot Diameter Runout 0.025 mm (0.001 in.) T.I.R Backlash 0.1 ° maximum Weight 18 grams Ferminals Side exit turret style Soldering Condition Side exit turret style Manual Soldering 96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wir 370 °C (700 °F) max. for 3 second Wave Soldering 96.5Sn/3.0Ag/0.5Cu solder with no-clean flu 260 °C (500 °F) max. for 5 second Wash processes Not recommended Marking Manufacturer's name and part number, resistance value and tolerance	Total Resistance Shift	±10 % maximum
Torque (Starting & Running) 0.18 N-cm (0.25 ozin.) maximum Shaft Runout 0.025 mm (0.001 in.) T.I.R Lateral Runout 0.05 mm (0.002 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 Slot Diameter Runout 0.025 mm (0.001 in.) T.I.R Backlash 0.1 ° maximum Weight 18 grams Erminals Side exit turret style Soldering Condition Side exit turret style Manual Soldering 96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wir 370 °C (700 °F) max. for 3 second: 370 °C (700 °F) max. for 5 second: Wave Soldering 96.5Sn/3.0Ag/0.5Cu solder with no-clean flu: 260 °C (500 °F) max. for 5 second: 260 °C (500 °F) max. for 5 second: Marking Manufacturer's name and part number, resistance value and tolerance	Mechanical Characteristics ¹	
Backlash	Forque (Starting & Running)	
Soldering Condition Manual Soldering	Backlash Veight	0.1 ° maximum
Manual Soldering	Solderina Condition	,
Wash processes	Manual Soldering9	370 °C (700 °F) max, for 3 seconds
Wash processes	Wave Soldering	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux 260 °C (500 °F) max. for 5 seconds
linearity tolerance wiring diagram, and date code	Wash processesManufacturer	Not recommended
Ganging10 cups maximum	-	linearity tolerance, wiring diagram, and date code

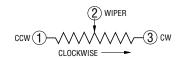
Product Dimensions



ADD $\frac{5.08}{(.200)}$ FOR EACH ADDITIONAL CUP.



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



Recommended Part Numbers

Part Number*	Resistance (Ω)
6534S-1-102	1,000
6534S-1-202	2,000
6534S-1-502	5,000
6534S-1-103	10,000
6534S-1-203	20,000
6534S-1-503	50,000
6534S-1-104	100,000

 $^{1}\!\text{At}$ room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted.