

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Features

- Bushing mount
- Optional center tap and rear shaft extension
- Optional AR lug feature
- Gangable with common or concentric shafts
- High torque available
- Optional 0.1 % linearity
- Non-standard features and specifications

3540/3541 - Precision Potentiometer

Electrical Characteristics ¹		
Standard Resistance Range	100 to 100 K ohms	1 K to 100 K ohms
Total Resistance Tolerance	±5 %	±10 %
Independent Linearity	±0.25 %	±0.25 %
Effective Electrical Angle	3600 ° +10 °, -0 °	3600 ° +10 °, -0 °
Absolute Minimum Resistance/	1 ohm or 0.1 % maximum	Minimum voltage
Minimum Voltage	(whichever is greater)	0.2 % maximum
Minimum Voltage Noise	100 ohms ENŘ maximum	Output smoothness 0.1 %
		maximum
Dielectric Withstanding Voltage (M	IL-STD-202, Method 301)	
Sea Level	1,000 VAC minimum	1,000 VAC minimum
Power Rating (Voltage Limited By		
	2 watts	
	0 watt	
Insulation Resistance (500 VDC)	1,000 megohms minimum	1,000 megohms minimum
Resolution	See recommended part nos	Essentially infinite
Environmental Characterist	ics¹	
Operating Temperature Range	+1 °C to +125 °C	+1 °C to +125 °C
Storage Temperature Range	55 °C to +125 °C	55 °C to +125 °C
Temperature Coefficient Over		
Storage Temperature Range ²	±50 ppm/°C maximum/unit	±100 ppm/°C maximum/unit
Vibration		
	0.1 millisecond maximum	
Shock		
Wiper Bounce	0.1 millisecond maximum	0.1 millisecond maximum
Load Life		
	±2 %	
Rotational Life (No Load)		
	±5 % maximum	±5 % maximum
Moisture Resistance (MIL-STD-202	2, Method 103, Condition B)	
Total Resistance Shift	±2 % maximum	±5 % maximum
IP Rating	IP 40	IP 40
Mechanical Characteristics	1	
Stop Strength		53 N-cm (75 oz-in.) minimu
Mechanical Angle		
Torque (Starting & Running)		0.35 N-cm (0.5 ozin.) ma
Mounting	17	′0-200 N-cm (15-18 lbin.) ma
Shaft Runout		
Lateral Runout		
Shaft End Play		
Shaft Radial Play		0.25 mm (0.010 in.) T.I.I
Pilot Diameter Runout		
Backlash		
Weight		
Terminals		Gold-plated solder lug
Soldering Condition	.Recommended hand soldering	using Sn95/Ag5 no clean solde
0.025 " wire	e diameter. Maximum temperatu	re 399 °C (750 °F) for 3 second
	No wash proce	ss to be used with no clean flu
Marking	Manufacturer's name and pa	art number, resistance value ar
-	tolerance, linearity tolerance	

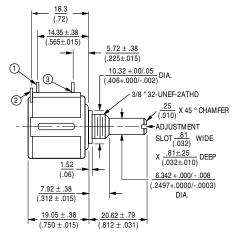
is shipped with each potentiometer. ¹At room ambient: +25 °C nominal and 50 % relative humidity nominal, except as noted. ²Consult manufacturer for complete specification details.

Recommended Part Numbers

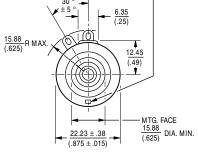
Part Number	Resistance	Resolution
3540S-1-201	200	.042
3540S-1-501	500	.031
3540S-1-102	1,000	.027
3540S-1-202	2,000	.021
3540S-1-502	5,000	.021
3540S-1-103	10,000	.019
3540S-1-203	20,000	.014
3540S-1-503	50,000	.011
3540S-1-104	100,000	.008

Part Number	Resistance
3541H-1-102	1,000
3541H-1-202	2,000
3541H-1-502	5,000
3541H-1-103	10,000
3541H-1-203	20,000
3541H-1-503	50,000
3541H-1-104	100,000
	-

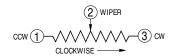
3540S-1/3541H-1



OPTIONAL ANTIROTATION LUG (-91) 1.42 X .50 ON 7.4 RADIUS. LENGTH 1.27 FROM MOUNTING SURFACE. (SUGGESTED PANEL HOLE 1.6 DIA.)



TOLERANCES: EXCEPT WHERE NOTED DECIMALS: .XX $\pm \frac{.25}{(.010)}$, .XXX $\pm \frac{.13}{(.005)}$ FRACTIONS: ±1/64 DIMENSIONS: $\frac{MM}{(IN.)}$



BOLDFACE LISTINGS ARE IN STOCK AND READILY AVAILABLE THROUGH DISTRIBUTION. FOR SERVO MOUNT VERSION AND OTHER OPTIONS CONSULT FACTORY.

REV. 04/03