



7/8", 1 1/16", 2" Ø SINGLE TURN SERVO MOUNT POTENTIOMETERS CONDUCTIVE PLASTIC ELEMENT

- Extended rotational life
- Housing, anodized aluminium
- Ganging up to 10 cups
- Terminals, gold plated turrets
- Performance guaranteed by the Bourns Reliability Program
- Custom design capability is available to satisfy your most demanding and difficult special requirements

STANDARD SPECIFICATIONS		7/8" Ø MODEL 6534	1 1/16" Ø MODEL 6544	2" Ø MODEL 6574
Electrical Characteristics				
Resistance Range		1 KΩ to 100 KΩ		
Resistance Tolerance		±10%		
Linearity (Independent)		±0.5%	±0.5%	±0.25%
Effective Electrical Angle		320° ±3°	340° ±3°	350° ±3°
End Voltage		MIL-R-39023		
Power Rating	70 °C	1.0 W	1.25 W	2.0 W
	125 °C		0 W	
Output Smoothness		0.1%		
Dielectric Strength	Sea Level	750 V ~ min.	750 V ~ min.	1000 V ~ min.
	70,000 feet	250 V ~ min.	250 V ~ min.	350 V ~ min.
Insulation Resistance 500 V =		1000 Meg. Ω min.		
Environmental Characteristics				
Test Procedures per:		MIL-R-39023		
Operating Temperature Range		-65 °C to +125 °C		
Temperature Coefficient		MIL-R-39023, Symbol A		
Humidity		MIL-R-39023 moisture resistance		
Vibration		MIL-R-39023, 15 G		
Wiper Bounce		0.1 millisecond max.		
Wiper Shift		1.0% max.		
Shock		MIL-R-39023, 50 G		
Wiper Bounce and Wiper Shift		Same as Vibration		
Sand, Dust, Fungus		MIL-E-5272		
Salt Spray		MIL-R-39023		
Mechanical and Physical Characteristics				
Mechanical Angle		Continuous Rotation		
Shaft Runout		MIL-R-12934: 0.001" or 0.002" per inch shaft length		
Lateral Runout		0.002 in. T.I.R.		
Pilot Diameter Runout		0.001 in. T.I.R.		
Shaft End Play		0.005 in. T.I.R.		
Shaft Radial Play		0.003 in. T.I.R.		
Backlash		0.1% max.		
Rotational Life, shaft revolutions		MIL-R-39023, Res. Change 10% max., Symbol 4 = 25 x 10 ⁶ Rev.		
Torque, Starting and Running		0.25 oz.-in. max.	0.25 oz.-in. max.	0.75 oz.-in. max.
Markings		Part number, resistance value and tolerance, linearity tolerance, wiring diagram, date code.		

Specifications are subject to change without notice.

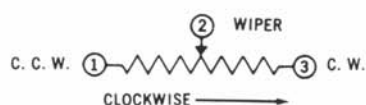
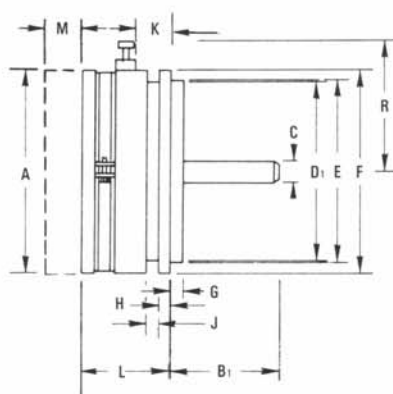
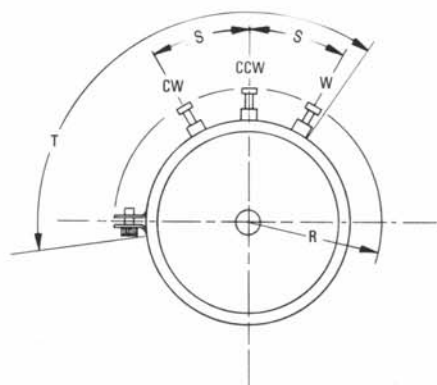
ORDERING INFORMATION

Resistance Ω	$7/8"$ ϕ	$1\frac{1}{16}"$ ϕ^*	2" ϕ^*
1,000	● 6534S-1-102	6544S-1-102	● 6574S-1-102
2,000	6534S-1-202	6544S-1-202	6574S-1-202
5,000	6534S-1-502	6544S-1-502	● 6574S-1-502
10,000	● 6534S-1-103	● 6544S-1-103	● 6574S-1-103
20,000	6534S-1-203	6544S-1-203	6574S-1-203
50,000	6534S-1-503	6544S-1-503	6574S-1-503
100,000	6534S-1-104	6544S-1-104	6574S-1-104

● Preferred resistance values

*The last three digits of the part number represent the resistance value in standard code.

		6534	6544	6574
DIMENSIONS (INCH)	A	0.875" ϕ	1.062" ϕ	2.00" ϕ
Shaft Length	B ¹	0.5 $\pm$ 0.031	0.5 $\pm$ 0.031	0.625 $\pm$ 0.031
Shaft ϕ	C	0.1248 + 0, - 0.0003	0.1248 + 0, - 0.0003	0.2497 + 0, - 0.0003
Pilot ϕ	D ₁	0.75 + 0, - 0.0005	0.9688 + 0, - 0.0005	1.875 + 0, - 0.001
Pilot Thickness	G	0.062 $\pm$ 0.005	0.062 $\pm$ 0.005	0.062 $\pm$ 0.005
Groove ϕ	E	0.78 $\pm$ 0.005	0.968 $\pm$ 0.005	1.875 max.
Groove Width	J	0.057 min.	0.057 min.	0.080 min.
Flange ϕ	F	0.875 + 0.005, - 0.010	1.062 + 0.005, - 0.010	2.000 + 0.005, - 0.010
Flange Thickness	H	0.062 $\pm$ 0.005	0.062 $\pm$ 0.005	0.093 $\pm$ 0.005
Terminal Clearance	K	0.200 min.	0.200 min.	0.250 min.
Terminal Radius	R	0.600 max.	0.700 max.	1.165 max.
Terminal Spacing	S	30° $\pm$ 3°	30° $\pm$ 3°	15° $\pm$ 3°
Terminal-C/B Envelope	T	140° + 0° - 20°	135° + 0° - 20°	90° + 0° - 20°
Housing Length, Std.	L	0.475 $\pm$ 0.015	0.475 $\pm$ 0.015	0.600 $\pm$ 0.031
For each additional cup add to the above dimensions	M	0.200 max.	0.200 max.	0.200 max.



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