



7/8", 15/16" Ø SINGLE TURN BUSHING- OR SERVO MOUNT POTENTIOMETERS CONDUCTIVE PLASTIC ELEMENT

- Infinite resolution element
- Standard linearity: 1.0%
- Extended temperature range: -65°C to +125°C
- Output smoothness: 0.1% standard
- Custom design capability available
- Molded-in rear terminals

STANDARD SPECIFICATIONS		7/8" Ø MODEL 6537 MODEL 6637	7/8" Ø MODEL 6538 MODEL 6638	15/16" Ø MODEL 6657
Servo Mount				
Bushing Mount				
Electrical Characteristics				
Resistance Range		1 KΩ to 100 KΩ		
Resistance Tolerance		±10%		
Linearity (Independent)		±1.0%		
Resolution		Essentially infinite		
Effective Electrical Angle		340° ± 3°		
End Voltage		0.5% max.		
Output Smoothness		0.1%		
Power Rating	70°C	1.0 W	1.0 W	1.5 W
	125°C		0 W	
Dielectric Strength		750 V~ min.		
Insulation Resistance		500 Meg.Ω min.	1000 Meg.Ω min.	1000 Meg.Ω min.
Environmental Characteristics				
Operating Temperature Range		-65°C to +125°C		
Vibration		15 G		
Wiper Bounce		0.1 millisecond max.		
Shock		50 G		
Wiper Bounce		0.1 millisecond max.		
Mechanical and Physical Characteristics				
Mechanical Angle		Continuous		
Shaft Runout		0.005 in. T. I. R.	0.001 in. T. I. R.	0.001 in. T. I. R.
Shaft End Play			0.005 in. T. I. R.	
Shaft Radial Play		0.005 in. T. I. R.	0.003 in. T. I. R.	0.003 in. T. I. R.
Backlash		0.1° max.		
Pilot Diameter Runout (Servo)		0.0025 in. T. I. R.	0.0025 in. T. I. R.	—
Lateral Runout (Servo)		0.003 in. T. I. R.	0.003 in. T. I. R.	—
Rotational Life, shaft revolutions		10,000,000	20,000,000	10,000,000
Torque, Starting and Running		0.5 oz.-in. max.	0.25 oz.-in. max.	0.5 oz.-in. max.
Terminals		Rear turret type		
Ball Bearings		—	Front and rear	—
Markings		Manufacturer's name and part number, resistance value and tolerance, linearity tolerance, wiring diagram, date code.		

Specifications are subject to change without notice.

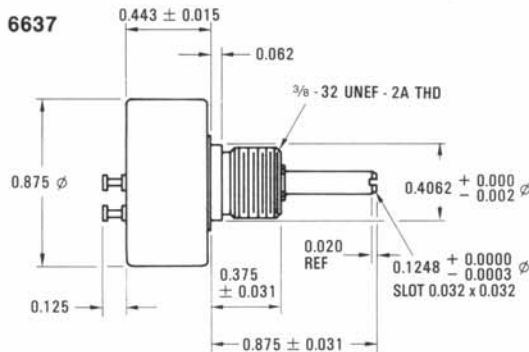
ORDERING INFORMATION

Resistance Ω	7/8" Servo Mount		7/8" Bushing Mount		15/16" Bushing Mount
1,000	● 6537S-1-102	● 6538S-1-102	● 6637S-1-102	● 6638S-1-102	● 6657S-1-102
2,000	6537S-1-202	6538S-1-202	6637S-1-202	6638S-1-202	6657S-1-202
5,000	● 6537S-1-502	6538S-1-502	● 6637S-1-502	6638S-1-502	● 6657S-1-502
10,000	● 6537S-1-103	● 6538S-1-103	● 6637S-1-103	● 6638S-1-103	● 6657S-1-103
20,000	6537S-1-203	6538S-1-203	6637S-1-203	6638S-1-203	6657S-1-203
50,000	6537S-1-503	6538S-1-503	6637S-1-503	6638S-1-503	6657S-1-503
100,000	6537S-1-104	6538S-1-104	6637S-1-104	6638S-1-104	6657S-1-104

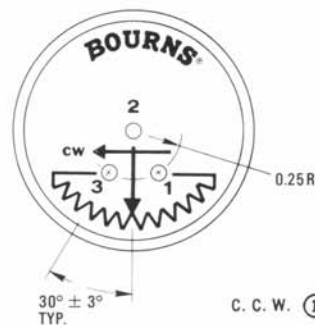
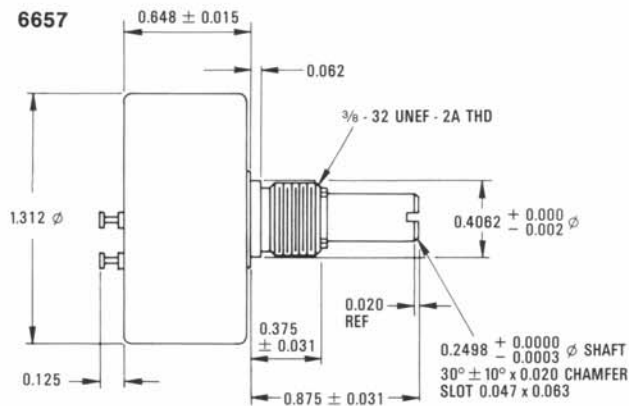
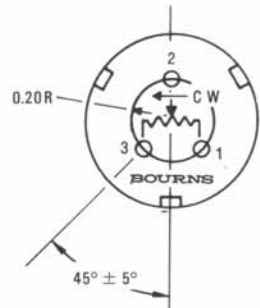
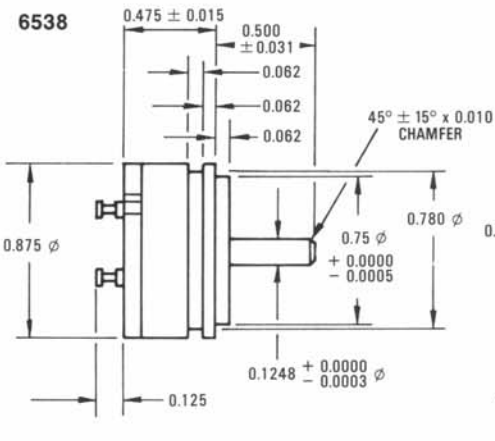
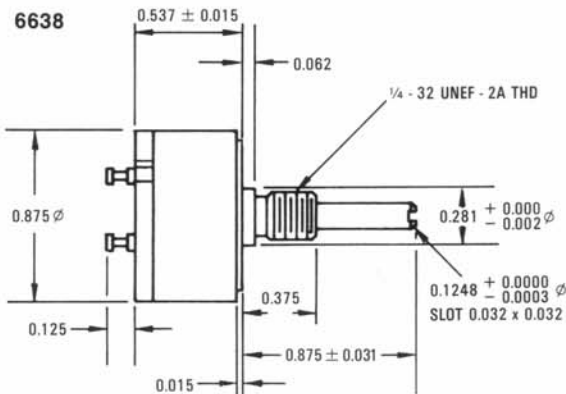
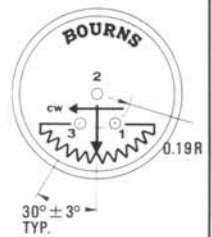
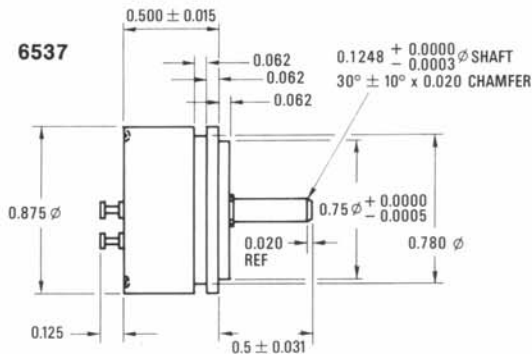
The last three digits of the part number represent the resistance in standard code.

● Preferred resistance values

DIMENSIONS (INCH)



6637S-004 = same shaft as 6657



② WIPER
C. C. W. ① ——— ③ C. W.
CLOCKWISE →

Specifications are subject to change without notice.