



SERVO MOUNT/BALL BEARING
MODEL 3207

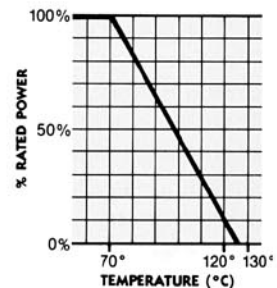
7/8" TO 2" DIAMETER SERVO MOUNT

WIREWOUND 3, 5 AND 10-TURN PRECISION POTENTIOMETERS

SERVO MODEL	3207	
ELECTRICAL		
Actual Electrical Travel	1800° + 4° - 0°	
Normal Resistance Range	50 Ω to 50K	
Extended Resistance Range ⁽¹⁾	5 Ω to 125K	
Resistance Tolerance: Standard %	± 3	
Best Practical %	± 1	
Power Rating At 70°C, Derating To 0 at 125°C (Watts)	2.0	
Linearity, Independent, Tolerance, Standard %	± 0.35	
Best Practical %	± 0.07	
Equivalent Noise Resistance (ENR) Max. (Ohms)	100	
End Voltage Max. (% Of Total Applied Voltage)	Within linearity tolerance	
Insulation Resistance At 500 VDC, Min. (Megohms)	1000	
Dielectric Withstanding Voltage (Volts RMS)	1000	
Max. Applied Voltage (Volts DC) ⁽²⁾	1000	
Temperature Coefficient Of Potentiometer, Max. %/°C	± .007	
Tap Spacing Minimum	30°	
MECHANICAL		
Total Mechanical Travel	1800° + 4° - 0°	
Mechanical Life, Shaft Revolutions	2 million	
Ganged Cups, Max. (Number)	3	
Taps, Max., Excluding End Terminations	22	
Moment Of Inertia, Per Cup (gm-cm ²)	0.3	
Weight: Single Cup (oz.)	1.0	
Each Additional Cup (oz.)	0.8	
Torque, Max. Per Cup (oz.-in)	0.5	
Pilot Diameter Runout, Max.	.0015	
Lateral Runout, Max.	.002	
Shaft Runout, Max.	.001	
Shaft Radial Play, Max.	.002	
Shaft End Play, Max.	.005	
Dimension For Each Additional Cup	.966 ± .002	
Stop Strength Static (oz.-in)	128	
ENVIRONMENTAL		
Temperature Range (°C) Standard	- 55 to + 125	

(1) All specifications listed apply to units with a total resistance within the normal resistance range. Higher or lower resistances may require some degradation of listed specifications because of resistance wire composition or size.

(2) Not to exceed specified power rating.



THEORETICAL RESOLUTION—For typical coil characteristics by model number and resistance value, see Resolution Tables, page 52.
ALL MODELS are manufactured to meet or exceed applicable characteristics of MIL-R-12934. For MILITARY-APPROVED (QPL) Listings, see page 52.

TOLERANCES UNLESS OTHERWISE SPECIFIED:

FRACTIONAL: ± 1/64" DECIMAL: ± .005" ANGULAR: ± 1°

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LENGTHS

MODEL	NUMBER OF TURNS	LENGTH DIMENSION L
3204	3	1.070 ± .006
3504		1.388 ± .007
3704		1.231 ± .007
3207	5	1.213 ± .006
3507		1.610 ± .007
3201	10	1.570 ± .006
3501		2.165 ± .007
3701		2.008 ± .007

