

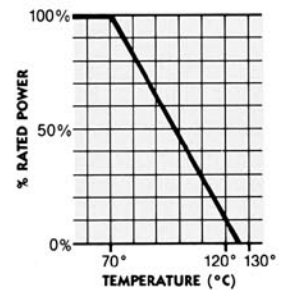
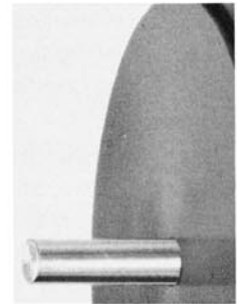


SERVO MOUNT/BALL BEARING  
MODEL 1701

WIREWOUND SINGLE-TURN  
PRECISION POTENTIOMETERS

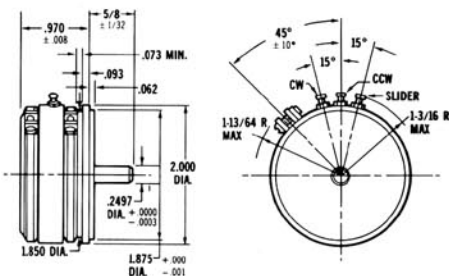
SERVO MODEL	1701
<b>ELECTRICAL</b>	
Actual Electrical Travel	356° ± 1°
Normal Resistance Range	100Ω to 75K
Extended Resistance Range (1)	25Ω to 200K
Resistance Tolerance: Standard %	± 3
Best Practical %	± 1
Power Rating At 70°C, Derating To 0 At 125°C (Watts)	5.0
Linearity, Independent, Tolerance, Standard %	± 0.2
Best Practical %	± 0.08
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) <sup>(2)</sup>	400
Temperature Coefficient Of Potentiometer, Max. % / °C	± .007
<b>MECHANICAL</b>	
Total Mechanical Travel	360° Continuous
Mechanical Life, Shaft Revolutions	2 million
Ganged Cups, Max. (Number)	8
Taps, Max., Excluding End Terminations	26
Moment Of Inertia, Per Cup (gm-cm <sup>2</sup> )	5.0
Weight: Single Cup (oz.)	3.3
Each Additional Cup (oz.)	1.0
Torque, Max. Per Cup (oz.-in)	0.8
Pilot Diameter Runout, Max.	.0015
Lateral Runout, Max.	.002
Shaft Runout, Max.	.001
Shaft Radial Play, Max.	.002
Shaft End Play, Max.	.004
Dimension For Each Additional Cup	.562 ± .002
<b>ENVIRONMENTAL</b>	
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°

1701



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Precision Potentiometers](#) category:*

*Click to view products by [Sensata](#) manufacturer:*

Other Similar products are found below :

[578002M9648](#) [70J1G032S202A](#) [176FL1-284](#) [F78SB102-M257](#) [3548H-1AA-103B](#) [485025M9267](#) [MH12B-10L-10K](#) [578005M9656](#)  
[72N4N048S203W](#) [RO200SF1C103](#) [114BF2A102-L774](#) [200FL1-199](#) [78FL1-397](#) [78MKV-128](#) [501-0004](#) [501-0018](#) [SE15303-352-T4](#)  
[284TCBF103A26A1](#) [RO34SF1B502](#) [200FL1-260](#) [3548H-1AB-502A](#) [157-0237](#) [284TBBK103A26B1](#) [DC22-10-100](#) [JC22S 1K 0.5%](#)  
[MW22B-2200-500](#) [122S1501](#) [RCL-100](#) [RCL-200](#) [3590P-4-503L](#) [380C2750K](#) [157S202MB9002](#) [157S102MB9002](#) [15A31B10](#) [380C2500K](#)  
[SP22E-100K](#) [AR300KL.25](#) [AR2KL.25](#) [AR1KL.25](#) [AR500KL.25](#) [MC6CX1A502X001](#) [7286R100L.25](#) [7286R20KL.25](#) [73JB100<](#) [6638S-1-](#)  
[103](#) [282TCBS103A25B1](#) [3590P-1-103L](#) [7276R2KL.25](#) [3500S-2-500L](#) [SP22D-1K](#)