



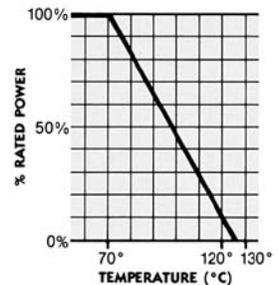
**BUSHING MOUNT/SLEEVE BEARING  
INDUSTRIAL MODEL 4605**

**7/8" TO 1-3/4" DIAMETER BUSHING MOUNT**

**HYBRID 3, 5 AND 10-TURN  
PRECISION POTENTIOMETERS**

<b>BUSHING MODEL</b>	<b>4605</b>
<b>ELECTRICAL</b>	
Theoretical Electrical Travel	1080°
Normal Resistance Range	2K to 40K
Extended Resistance Range <sup>(1)</sup>	1K to 75K
Resistance Tolerance: Standard %	± 5
Best Practical %	± 3
Power Rating At 70°C, Derating To 0 at 125°C (Watts)	5.0
Linearity, Independent, Tolerance, Standard %	± 0.35
Best Practical %	± 0.15
Output Smoothness Max. (% Of Applied Voltage)	0.35
End Voltage Max. (% Of Total Applied Voltage)	0.25
Insulation Resistance At 500 VDC, Min. (Megohms)	1000
Dielectric Withstanding Voltage (Volts RMS)	1000
Max. Applied Voltage (Volts DC) <sup>(2)</sup>	1000
Temperature Coefficient Of Potentiometer, Max. %/°C	± .007
Tap Spacing Minimum	13°
<b>MECHANICAL</b>	
Total Mechanical Travel	1080° + 10° - 0°
Mechanical Life, Shaft Revolutions	2 million
Ganged Cups, Max. (Number)	3
Taps, Max., Excluding End Terminations	52
Moment Of Inertia, Per Cup (gm-cm <sup>2</sup> )	7
Weight: Single Cup (oz.)	2.5
Each Additional Cup (oz.)	1.6
Torque, Max. Per Cup (oz.-in)	1.5
Pilot Diameter Runout, Max.	.002
Lateral Runout, Max.	.003
Shaft Runout, Max.	.001
Shaft Radial Play, Max.	.004
Shaft End Play, Max.	.005
Dimension For Each Additional Cup	.943 ± .005
Stop Strength Static (oz.-in)	750
<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 material composition.
- (2) Not to exceed specified power rating.



ALL MODELS are manufactured to meet or exceed applicable characteristics of MIL-R-39023. For MILITARY-APPROVED (QPL) Listings, see page 52.

**TOLERANCES UNLESS OTHERWISE SPECIFIED:**

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

**LENGTHS**

<b>MODEL</b>	<b>NUMBER OF TURNS</b>	<b>LENGTH DIMENSION L</b>
4205	3	.960 ± .006
4206		.960 ± .006
4605		1.148 ± .007
4705		1.148 ± .007
4208	5	1.103 ± .006
4209		1.103 ± .006
4202	10	1.460 ± .006
4203		1.460 ± .006
4232		1.460 ± .006
4233		1.460 ± .006
4602		1.925 ± .007
4702		1.925 ± .007

**4605**

