



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

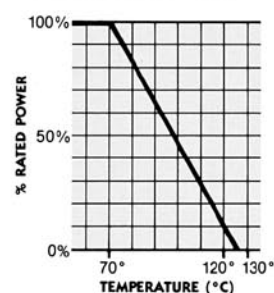
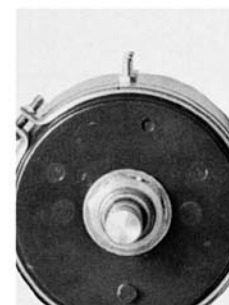
BUSHING MOUNT/SLEEVE BEARING MODEL 4702

HYBRID 3, 5 AND 10-TURN PRECISION POTENTIOMETERS

BUSHING MODEL	4702
ELECTRICAL	
Theoretical Electrical Travel	3600°
Normal Resistance Range	5K to 100K
Extended Resistance Range ⁽¹⁾	2.5K to 250K
Resistance Tolerance: Standard %	± 5
Best Practical %	± 3
Power Rating At 70°C, Derating To 0 at 125°C (Watts)	7.0
Linearity, Independent, Tolerance, Standard %	± 0.1
Best Practical %	± 0.03
Output Smoothness Max. (% Of Applied Voltage)	0.1
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) ⁽²⁾	1000
Temperature Coefficient Of Potentiometer, Max. %/°C	± .007
Tap Spacing Minimum	13°
MECHANICAL	
Total Mechanical Travel	3600° + 10° - C°
Mechanical Life, Shaft Revolutions	2 million
Ganged Cups, Max. (Number)	2
Taps, Max., Excluding End Terminations	135
Moment Of Inertia, Per Cup (gm-cm ²)	12
Weight: Single Cup (oz.)	4.5
Each Additional Cup (oz.)	2.7
Torque, Max. Per Cup (oz.-in)	1.5
Pilot Diameter Runout, Max.	.0015
Lateral Runout, Max.	.0025
Shaft Runout, Max.	.001
Shaft Radial Play, Max.	.002
Shaft End Play, Max.	.005
Dimension For Each Additional Cup	1.720 ± .005
Stop Strength Static (oz.-in)	1000
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 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

MODEL	NUMBER OF TURNS	LENGTH DIMENSION L
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

4702

