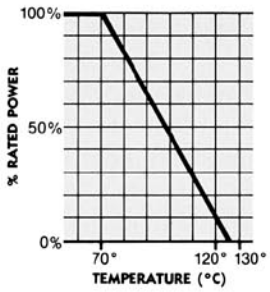
BUSHING MOUNT/SLEEVE BEARING MODEL 1622

# CONDUCTIVE PLASTIC SINGLE-TURN PRECISION POTENTIOMETERS

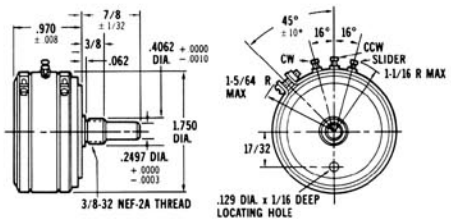
| BUSHING MODEL | 1622 |
|---|---|
| **ELECTRICAL** | |
| Theoretical Electrical Travel | 340° |
| Normal Resistance Range | 900Ω to 60K |
| Extended Resistance Range (1) | 500Ω to 150K |
| Resistance Tolerance: Standard % | ±10 |
| Best Practical % | ±5 |
| Power Rating At 70°C, Derating To 0 At 125°C (Watts) | 1.5 |
| Linearity, Independent, Tolerance, Standard % | ±0.25 |
| Best Practical % | 0.075 |
| Output Smoothness Max. (% Of Applied Voltage) | 0.1 |
| End Voltage Max. (% Of Total Applied Voltage) | 0.5 |
| Insulation Resistance At 500 VDC, Min. (Megohms) | 1000 |
| Dielectric Withstanding Voltage (Volts RMS) | 1000 |
| Max. Applied Voltage (Volts DC)(2) | 400 |
| Temperature Coefficient Of Potentiometer, Max. %/°C | −.07 |
| **MECHANICAL** | |
| Total Mechanical Travel | 360° Continuous |
| Mechanical Life, Shaft Revolutions | 2 million |
| Ganged Cups, Max. (Number) | 8 |
| Taps, Max., Excluding End Terminations | 24 |
| Moment Of Inertia, Per Cup (gm-cm²) | 4.5 |
| Weight: Single Cup (oz.) | 2.8 |
| Each Additional Cup (oz.) | 0.9 |
| Torque, Max. Per Cup (oz.-in) | 1.4 |
| Pilot Diameter Runout, Max. | .0015 |
| Lateral Runout, Max. | .003 |
| Shaft Runout, Max. | .001 |
| Shaft Radial Play, Max. | .003 |
| Shaft End Play, Max. | .0015 |
| Dimension For Each Additional Cup | .562 ± .002 |
| **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°

**1622**