

AC6292

*Miniature slip ring capsule -
circuit configuration for commercial
and military applications*

Description

A slip ring capsule can be used in any electromechanical system that requires unrestrained, occasional or continuous rotation while transferring power and / or data.

Miniature slip ring capsule assemblies economically address both critical space and weight limitations. Each assembly includes the rotor, brush blocks, frame, ball bearings and dust cover.

These slip rings can be configured with spacing between rings of 0.006 inch and brush diameters no larger than a human hair. Existing designs are available or we can custom design slip rings to meet your specific requirement.

Features

- Center-to-center adjacent ring spacings as small as 0.015 inch can be obtained
- 80 rings packaged in a self-contained envelope 3.3 inches long and 1.5 inch barrel diameter
- Gold-on-gold sliding contact technology
- Up to 40 rpm operation
- Low noise; as low as 15 milliohm per circuit pair
- Long life; several million total revolutions have been obtained

Benefits

- Precise, tight packaging capabilities for meeting stringent design criteria
- Proprietary plating techniques provide improved reliability, longer life and increased efficiency
- Unique signal handling performance to minimize noise and increase speed
- Other configurations are available from 16 to 95 circuits
- We also manufacture commercial slip rings from 6 to 56 circuits



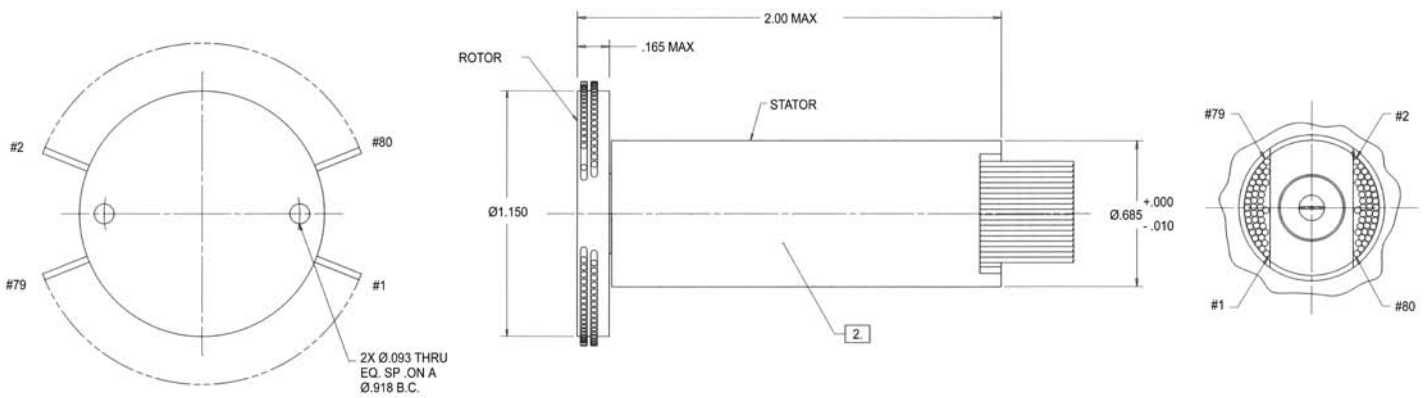
Typical Applications

- Gimballed pitch, roll and yaw axes of inertial navigation systems
- Deep earth drilling projects
- Missile weapon systems
- Unmanned aerial vehicles (UAV)
- Airborne camera platforms

Miniature Slip Ring Capsules

Specifications	
Current Rating	0.8 amp per circuit
Lead Size	30 AWG
Dielectric Strength	1000 V (test)
Insulation Resistance	1000 megohms
Circuit Resistance	0.27 ohms (leads @ 24 in.)
Starting Torque	240 gm cm
Noise	30 milliohms max.
Rotational Speed	40 rpm max.
Lead Length	24 inches each end

AC6292 Dimensions



Dimensions in inches (millimeters)