



## RE4815 MINIATURE SLIP RING CAPSULE



A slip ring capsule can be used in an electromechanical application to transfer low power and data over a continuous rotary interface, eliminating the need for wrapped cables. The RE4815 provides highly compact packaging to 32 conductors in a very small 1/2 inch diameter housing with an overall length of less than 1-3/8 inches.

### FEATURES

- Compact for ease of incorporation in small mechanisms
- 32 rings with excellent signal handling properties as well as low power transfer
- Gold-on-gold contact technology
- Up to 600 rpm operation
- Low electrical noise

### BENEFITS

- Highly compact to keep mechanisms small
- Outstanding signal handling capability to transfer the most demanding communication protocols
- Proprietary plating techniques and materials for high performance and reliability
- Rugged stainless steel housing for demanding environments

### TYPICAL APPLICATIONS

- Gimbal systems
- UAV camera systems
- Positioning tables
- Laboratory equipment

# RE4815 SPECIFICATIONS

## MOTOR CHARACTERISTICS

| Specification           | Units  |
|-------------------------|--|
| Current Rating          | 1 A per circuit  |
| Operational Voltage     | 50 VAC / VDC   |
| Lead Size               | 30 AWG (19 / 42 SPC, Teflon® insulation)                                   |
| Starting Torque         | 50 gm cm   |
| Electrical Noise        | 50 milliohms maximum tested @ 6 VDC<br>50 milliamps when running @ 130 rpm |
| Operational Temperature | 80°C maximum   |
| Rotational Speed        | 600 rpm  |
| Circuit Resistance      | 900 milliohms maximum  |
| Enclosure               | Stainless steel  |

## LEAD COLOR CODES

| ?? | ??  | ?? | ??      | ?? | ??          | ?? | ??          |
|----|-----|----|---------|----|-------------|----|-------------|
| 1  | BLK | 9  | GRY     | 17 | WHT/BLU     | 25 | WHT/BLK/BLU |
| 2  | BRN | 10 | WHT     | 18 | WHT/VIO     | 26 | WHT/BLK/VIO |
| 3  | RED | 11 | WHT/BLK | 19 | WHT/GRY     | 27 | WHT/BLK/GRY |
| 4  | ORN | 12 | WHT/BRN | 20 | WHT/BLK/BRN | 28 | WHT/BRN/RED |
| 5  | YEL | 13 | WHT/RED | 21 | WHT/BLK/RED | 29 | WHT/BRN/ORN |
| 6  | GRN | 14 | WHT-ORN | 22 | WHT/BLK/ORN | 30 | WHT/BRN/YEL |
| 7  | BLU | 15 | WHT/YEL | 23 | WHT/BLK/YEL | 31 | WHT/BRN/GRN |
| 8  | VIO | 16 | WHT/GRN | 24 | WHT/BLK/GRN | 32 | WHT/BRN/BLU |

## MECHANICAL DIMENSIONS (INCHES)

