

**MATERIAL:**

|                          |                                                               |              |
|--------------------------|---------------------------------------------------------------|--------------|
| BODIES,<br>COUPLING NUT: | STAINLESS STEEL PER AMS-5640,<br>ALLOY UNS S30300, TYPE 1     |              |
| LOCK RINGS,<br>CONTACTS: | BERYLLIUM COPPER PER ASTM B196,<br>ALLOY No. UNS C17300, TD04 |              |
| SLEEVE:                  | BRASS PER ASTM B16, ALLOY UNS No. C36000                      |              |
| BELLOWS:                 | ELECTRO-DEPOSITED GOLD OVER NICKEL                            |              |
| INSULATORS:              | PTFE PER ASTM D1710, TYPE I, GRADE 1, CLASS B                 |              |
| GASKETS:                 | SILICONE RUBBER PER A-A-59588,<br>CLASS 2B, GRADE 50/60       |              |
| RESISTOR ELEMENTS:       | ALUMINA SUBSTRATE WITH<br>TANTALUM NITRIDE RESISTOR           | 1/4-36 UNS-2 |

**FINISH:**

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| BODIES,<br>COUPLING NUT: | PASSIVATED PER AMS-2700                                                                                    |
| CONTACTS,<br>SLEEVE:     | GOLD PER ASTM B488, TYPE II,<br>CODE C, CLASS 1.27; OVER NICKEL<br>PER AMS-QQ-N-290, CLASS 1, .00005" MIN. |

**PERFORMANCE:**

|                  |                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------|
| IMPEDANCE:       | 50 OHMS                                                                                                      |
| FREQ. RANGE:     | DC TO 12.4 GHz                                                                                               |
| VSWR:            | SEE TABLE 1                                                                                                  |
| OPERATING TEMP.: | -55°C TO +125°C                                                                                              |
| AVG. POWER:      | 2 WATT (POWER INPUT DERATED LINEARLY<br>FROM 25°C TO 0.5 WATTS AT 125°C)                                     |
| PEAK POWER:      | 200 WATTS (PEAK POWER FOR A DUTY CYCLE<br>OF 5X10 <sup>-4</sup> MAXIMUM PULSE DURATION OF<br>5 MICROSECONDS) |

| TABLE 1  |                         |         |         |            |
|----------|-------------------------|---------|---------|------------|
| dB VALUE | ATTENUATION<br>ACCURACY | VSWR    |         |            |
|          |                         | 2-4 GHz | 4-8 GHz | 8-12.4 GHz |
| 1-6 dB   | ±0.3 dB                 | 1.15:1  | 1.20:1  | 1.25:1     |
| 7-9 dB   | ±0.4 dB                 |         |         |            |
| 10 dB    | ±0.3 dB                 |         |         |            |
| 11-20 dB | ±0.5 dB                 |         |         |            |

|                                                                          |
|--------------------------------------------------------------------------|
| MATERIAL:                                                                |
| FINISH:                                                                  |
| SURFACE AP                                                               |
| THE INFORMA<br>IS THE SOLE F<br>ANY REPROD<br>WITHOUT THE<br>SV MICROWAY |