

# PRODUCT DATA DRAWING

| REVISION HISTORY |             |       |          |
|------------------|-------------|-------|----------|
| REV              | DESCRIPTION | DATE  | APPROVED |
| C                | DCN 38201   | 05/11 | PJS      |
|                  |             |       |          |

**MATERIAL:**

- BODIES, COUPLING NUT: STAINLESS STEEL PER AMS-5640, ALLOY UNS S30300, TYPE 1
- LOCK RINGS, CONTACTS: BERYLLIUM COPPER PER ASTM B196, 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, CLASS 2B, GRADE 50/60
- RESISTOR ELEMENTS: ALUMINA SUBSTRATE WITH TANTALUM NITRIDE RESISTOR

**FINISH:**

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

**PERFORMANCE:**

- IMPEDANCE: 50 OHMS
- FREQ. RANGE: DC TO 18.0 GHz
- VSWR: SEE TABLE 1
- OPERATING TEMP.: -55°C TO +125°C
- AVG. POWER: 2 WATT (POWER INPUT DERATED LINEARLY FROM 25°C TO 0.5 WATTS AT 125°C)
- PEAK POWER: 500 WATTS (PEAK POWER FOR A DUTY CYCLE OF 5X10<sup>-4</sup> MAXIMUM PULSE DURATION OF 5 MICROSECONDS)
- ENGAGEMENT/DISENGAGEMENT: 2 IN-LBS



|           |                      | TABLE 1  |         |         |            |             |
|-----------|----------------------|----------|---------|---------|------------|-------------|
| dB VALUE  | ATTENUATION ACCURACY | VSWR     |         |         |            |             |
|           |                      | DC-2 GHz | 2-4 GHz | 4-8 GHz | 8-12.4 GHz | 12.4-18 GHz |
| 0-6.5 dB  | ±0.3 dB              | 1.10:1   | 1.15:1  | 1.20:1  | 1.25:1     | 1.35:1      |
| 7-8.5 dB  | ±0.4 dB              |          |         |         |            |             |
| 9-14.5 dB | ±0.5 dB              |          |         |         |            |             |
| 15-20 dB  | ±0.6 dB              |          |         |         |            |             |

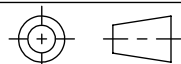
|   |  |   |  |
|---|--|---|--|
| MATERIAL: SEE NOTES   | DIMENSIONS ARE IN INCHES TOLERANCES:<br>FRACTIONAL: ±1/64 ANGULAR: X° ±1'0"<br>X'X' ±15' | UNLESS OTHERWISE SPECIFIED<br>1) ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)<br>2) ALL DIMENSIONS ARE AFTER PLATING.<br>3) BREAK CORNERS & EDGES .005 R. MAX.<br>4) CHAM. 1ST & LAST THREADS.<br>5) SURFACE ROUGHNESS 63-MIL-STD-10.<br>6) DIA.'S ON COMMON CENTERS TO BE CONCENTRIC WITHIN .005 T.I.R.<br>7) REMOVE ALL BURRS | <b>SV Microwave, Inc.</b><br>2400 Centrepark West Drive, Suite 100<br>West Palm Beach, FL 33409<br>TITLE:<br><b>SMA PLUG TO JACK MICRO ATTENUATOR DC TO 18 GHz</b> |
| FINISH: SEE NOTES   | DECIMAL: .X ±.030<br>.XX ±.010<br>.XXX ±.005   | INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994  |  |
| SURFACE AREA: N/A   | THIRD ANGLE PROJECTION   | DRAWN: VMJ 03/07/03   | SIZE: B CAGE CODE: 95077 DWG. NO. M3933/25-XX  |
| PROPRIETARY<br>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SV MICROWAVE, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SV MICROWAVE, INC IS PROHIBITED. |  | CHECKED: STW 03/09/03   | SCALE: 4:1   |
|   |  | APPROVED: STW 03/09/03  | SHEET 1 OF 2   |

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## "XX" NUMBER TO dB VALUE CHART

| "XX" NUMBER | dB VALUE | "XX" NUMBER | dB VALUE | "XX" NUMBER | dB VALUE | "XX" NUMBER | dB VALUE |
|-------------|----------|-------------|----------|-------------|----------|-------------|----------|
| 01          | 1        | 19          | 19       | 43          | 17       | 72          | 7        |
| 02          | 2        | 20          | 20       | 44          | 18       | 73          | 7.5      |
| 03          | 3        | 27          | 1        | 45          | 19       | 74          | 8        |
| 04          | 4        | 28          | 2        | 46          | 20       | 75          | 8.5      |
| 05          | 5        | 29          | 3        | 58          | 0        | 76          | 9        |
| 06          | 6        | 30          | 4        | 59          | 0.5      | 77          | 9.5      |
| 07          | 7        | 31          | 5        | 60          | 1        | 78          | 10       |
| 08          | 8        | 32          | 6        | 61          | 1.5      | 79          | 11       |
| 09          | 9        | 33          | 7        | 62          | 2        | 80          | 12       |
| 10          | 10       | 34          | 8        | 63          | 2.5      | 81          | 13       |
| 11          | 11       | 35          | 9        | 64          | 3        | 82          | 14       |
| 12          | 12       | 36          | 10       | 65          | 3.5      | 83          | 15       |
| 13          | 13       | 37          | 11       | 66          | 4        | 84          | 16       |
| 14          | 14       | 38          | 12       | 67          | 4.5      | 85          | 17       |
| 15          | 15       | 39          | 13       | 68          | 5        | 86          | 18       |
| 16          | 16       | 40          | 14       | 69          | 5.5      | 87          | 19       |
| 17          | 17       | 41          | 15       | 70          | 6        | 88          | 20       |
| 18          | 18       | 42          | 16       | 71          | 6.5      |             |          |

|   |   |   |  |
|---|---|---|--|
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|   |   | APPROVED: STW 03/09/03  | SHEET 2 OF 2   |