

# PRODUCT DATA DRAWING

| REVISION HISTORY |             |       |          |
|------------------|-------------|-------|----------|
| REV              | DESCRIPTION | DATE  | APPROVED |
| -                | DCN 38051   | 03/11 | 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, TYPE 2

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



| dB VALUE   | ATTENUATION ACCURACY | VSWR     |         |         |            |             | "A" DIM. |
|------------|----------------------|----------|---------|---------|------------|-------------|----------|
|            |                      | DC-2 GHz | 2-4 GHz | 4-8 GHz | 8-12.4 GHz | 12.4-18 GHz |          |
| 0 dB       | +0 /-0.3 dB          |          |         |         |            |             | .870     |
| 0.5-6.5 dB | ±0.3 dB              |          |         |         |            |             | .870     |
| 7-8.5 dB   | ±0.4 dB              |          |         |         |            |             | .870     |
| 9-14.5 dB  | ±0.5 dB              |          |         |         |            |             | .870     |
| 15-20 dB   | ±0.6 dB              | 1.10:1   | 1.15:1  | 1.20:1  | 1.25:1     | 1.35:1      | .870     |
| 21-29 dB   | ±1.0 dB              |          |         |         |            |             | 1.040    |
| 30-39 dB   | ±1.0 dB              |          |         |         |            |             | 1.040    |
| 40 dB      | ±1.0 dB              |          |         |         |            |             | 1.040    |
| 50 dB      | ±2.0 dB              |          |         |         |            |             | 1.350    |

|   |  |   |  |
|---|--|---|--|
| 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: FED 03/07/11   | SIZE: <b>B</b> CAGE CODE: <b>95077</b> DWG. NO.: <b>SF0929-6200-XXX</b>  |
| 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: PJS 03/07/11   | SCALE: 4:1   |
|   |  | APPROVED: PJS 03/07/11  | SHEET 1 OF 2   |

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|                  |             |       |          |

MAY VARY FROM 1 CHARACTER  
TO 3 CHARACTERS

## dB VALUE TO "XXX" NUMBER CHART

| dB VALUE | "XXX" NUMBER |
|----------|--------------|
| 0        | 0            |
| 0.5      | 0.5          |
| 1        | 1            |
| 1.5      | 1.5          |
| 2        | 2            |
| 2.5      | 2.5          |
| 3        | 3            |
| 3.5      | 3.5          |
| 4        | 4            |
| 4.5      | 4.5          |
| 5        | 5            |
| 5.5      | 5.5          |
| 6        | 6            |
| 6.5      | 6.5          |
| 7        | 7            |
| 7.5      | 7.5          |
| 8        | 8            |
| 8.5      | 8.5          |
| 9        | 9            |
| 9.5      | 9.5          |
| 10       | 10           |

| dB VALUE | "XXX" NUMBER |
|----------|--------------|
| 10.5     | 105          |
| 11       | 11           |
| 11.5     | 115          |
| 12       | 12           |
| 12.5     | 125          |
| 13       | 13           |
| 13.5     | 135          |
| 14       | 14           |
| 14.5     | 145          |
| 15       | 15           |
| 15.5     | 155          |
| 16       | 16           |
| 16.5     | 165          |
| 17       | 17           |
| 17.5     | 175          |
| 18       | 18           |
| 18.5     | 185          |
| 19       | 19           |
| 19.5     | 195          |
| 20       | 20           |
| 21       | 21           |

| dB VALUE | "XXX" NUMBER |
|----------|--------------|
| 22       | 22           |
| 23       | 23           |
| 24       | 24           |
| 25       | 25           |
| 26       | 26           |
| 27       | 27           |
| 28       | 28           |
| 29       | 29           |
| 30       | 30           |
| 31       | 31           |
| 32       | 32           |
| 33       | 33           |
| 34       | 34           |
| 35       | 35           |
| 36       | 36           |
| 37       | 37           |
| 38       | 38           |
| 39       | 39           |
| 40       | 40           |
| 50       | 50           |

|   |  |   |  |                         |                          |
|---|--|---|--|-------------------------|--------------------------|
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|   |  |   | CHECKED: PJS 03/07/11  | SHEET 2 OF 2            |                          |
|   |  |   | APPROVED: PJS 03/07/11   |                         |                          |