

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 5X10⁻⁴ 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 | | | | | |

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|---|--|---|---|
| MATERIAL: SEE NOTES | DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ±1/64 ANGULAR: X° ±1'0" X'X' ±15' | UNLESS OTHERWISE SPECIFIED 1) ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) 2) ALL DIMENSIONS ARE AFTER PLATING. 3) BREAK CORNERS & EDGES .005 R. MAX. 4) CHAM. 1ST & LAST THREADS. 5) SURFACE ROUGHNESS 63-MIL-STD-10. 6) DIA.'S ON COMMON CENTERS TO BE CONCENTRIC WITHIN .005 T.I.R. 7) REMOVE ALL BURRS | SV Microwave, Inc. 2400 Centrepark West Drive, Suite 100 West Palm Beach, FL 33409 |
| FINISH: SEE NOTES | DECIMAL: X ±.030 .XX ±.010 .XXX ±.005 | INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994 | TITLE: SMA PLUG TO JACK MICRO ATTENUATOR DC TO 18 GHz |
| SURFACE AREA: N/A | THIRD ANGLE PROJECTION | DRAWN: VMJ 03/07/03 CHECKED: STW 03/09/03 APPROVED: STW 03/09/03 | SIZE: B CAGE CODE: 95077 DWG. NO.: M3933/25-XX |
| PROPRIETARY 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. | | | SCALE: 4:1 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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