

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 5X10⁻⁴ 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 | 1.10:1 | 1.15:1 | 1.20:1 | 1.25:1 | 1.35:1 | .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 | | | | | | .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: 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 TITLE: SMA PLUG TO JACK MICRO ATTENUATOR DC TO 18 GHz |
| FINISH: SEE NOTES | DECIMAL: X ±.030 .XX ±.010 .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 CAGE CODE: 95077 DWG. NO.: SF0929-6200-XXX |
| 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. | | 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 | | |

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