ROHS COMPLIANT

# PRODUCT DATA DRAWING

| REVISION HISTORY | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | APPROVED |
| J | DCN 50408 | 12/20 | ELA |
| | | | |
| | | | |

## MATERIAL:

BODIES, INSERTS, & COUPLING NUT: STAINLESS STEEL PER AMS-5640, ALLOY UNS S30300, TYPE 1

LOCK RING & CONTACTS: BERYLLIUM COPPER PER ASTM B196, ALLOY No. UNS C17300, TD04

SLEEVE: BRASS PER ASTM B16, ALLOY UNS No. C36000

BEADS: ULTEM 1000

BELLOWS SPRINGS: ELECTRO-DEPOSITED GOLD OVER NICKEL

GASKET: SILICONE RUBBER PER A-A-59588, CLASS 2B, GRADE 50/60

RESISTOR ELEMENT: ALUMINUM NITRIDE SUBSTRATE WITH TANTALUM NITRIDE RESISTOR: GOLD PLATED TERMINATIONS

## FINISH:

BODIES, INSERTS, & COUPLING NUT: PASSIVATED PER AMS-2700, TYPE 2

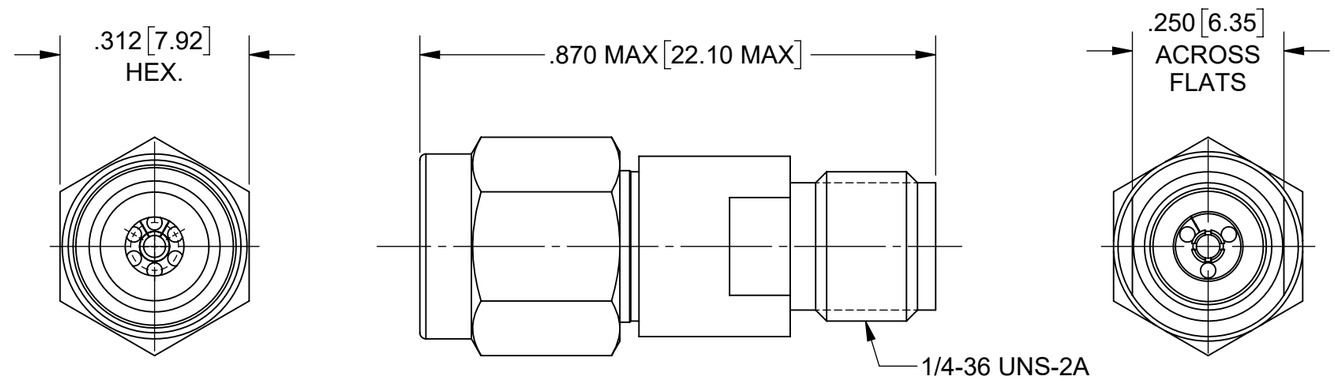
CONTACTS: GOLD PER ASTM B488, TYPE I, CODE C, CLASS 0.51; OVER NICKEL PER AMS-QQ-N-290, CLASS 1, .00005" MIN.

SLEEVE: GOLD PER ASTM B 488, 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 40.0 GHz
VSWR: 1.30:1 MAX. DC TO 26.5 GHz
1.40:1 MAX. 26.5 TO 40.0 GHz
OPERATING TEMP.: -55˚C TO +125˚C
AVG. POWER: 0.5 WATT (POWER INPUT DERATED LINEARLY FROM 25˚C TO 0.25 WATTS AT 135˚C)
PEAK POWER: 100 WATTS (PEAK POWER FOR A DUTY CYCLE OF 5X10-4 MAXIMUM PULSE DURATION OF 5 MICROSECONDS)
ENGAGEMENT/ DISENGAGEMENT: 2 IN-LBS

| | ATTENUATION ACCURACY | |
|---|---|---|
| dB VALUE | DC-26.5 GHz | 26.5-40.0 GHz |
| 0-6 dB | ±0.5 dB | ±0.8 dB |
| 6.25-10 dB | ±0.6 dB | ±0.8 dB |
| 10.25-20 dB | ±0.6 dB | ±1.0 dB |




## dB VALUE TO "XX" NUMBER CHART

| dB VALUE | XX | dB VALUE | XX | dB VALUE | XX | dB VALUE | XX |
|---|---|---|---|---|---|---|---|
| .25 | 40 | 5.25 | 50 | 10.25 | 60 | 15.25 | 70 |
| .5 | 00 | 5.5 | 25 | 10.5 | 30 | 15.5 | 35 |
| .75 | 41 | 5.75 | 51 | 10.75 | 61 | 15.75 | 71 |
| 1 | 01 | 6 | 06 | 11 | 11 | 16 | 16 |
| 1.25 | 42 | 6.25 | 52 | 11.25 | 62 | 16.25 | 72 |
| 1.5 | 21 | 6.5 | 26 | 11.5 | 31 | 16.5 | 36 |
| 1.75 | 43 | 6.75 | 53 | 11.75 | 63 | 16.75 | 73 |
| 2 | 02 | 7 | 07 | 12 | 12 | 17 | 17 |
| 2.25 | 44 | 7.25 | 54 | 12.25 | 64 | 17.25 | 74 |
| 2.5 | 22 | 7.5 | 27 | 12.5 | 32 | 17.5 | 37 |
| 2.75 | 45 | 7.75 | 55 | 12.75 | 65 | 17.75 | 75 |
| 3 | 03 | 8 | 08 | 13 | 13 | 18 | 18 |
| 3.25 | 46 | 8.25 | 56 | 13.25 | 66 | 18.25 | 76 |
| 3.5 | 23 | 8.5 | 28 | 13.5 | 33 | 18.5 | 38 |
| 3.75 | 47 | 8.75 | 57 | 13.75 | 67 | 18.75 | 77 |
| 4 | 04 | 9 | 09 | 14 | 14 | 19 | 19 |
| 4.25 | 48 | 9.25 | 58 | 14.25 | 68 | 19.25 | 78 |
| 4.5 | 24 | 9.5 | 29 | 14.5 | 34 | 19.5 | 39 |
| 4.75 | 49 | 9.75 | 59 | 14.75 | 69 | 19.75 | 79 |
| 5 | 05 | 10 | 10 | 15 | 15 | 20 | 20 |

NOTES:
1. SF0915-6200-00 DOES NOT HAVE A RESISTIVE PATH TO GROUND.

MATERIAL: SEE NOTES
FINISH: SEE NOTES
SURFACE AREA: N/A


**PROPRIETARY**
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DIMENSIONS ARE IN INCHES TOLERANCES:
FRACTIONAL: ±1/64 ANGULAR: X° ±1°0' X°X' ±15'
DECIMAL: .X ±.030 .XX ±.010 .XXX ±.005
INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994

THIRD ANGLE PROJECTION

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

| | | |
|---|---|---|
| DRAWN: | MGT 05/27/04 | |
| CHECKED: | DWC 11/14/01 | |
| APPROVED: | DWC 11/14/01 | |

**SV Microwave, Inc.**
www.svmicrowave.com

TITLE: SVK JACK TO PLUG ATTENUATOR

SIZE B DWG. NO. SF0915-6200-XX
SCALE: 4:1 SHEET 1 OF 1

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