

# 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  $5 \times 10^{-4}$  MAXIMUM PULSE DURATION OF

5 MICROSECONDS)

ENGAGEMENT/

**DISENGAGEMENT:**

2 IN-LBS

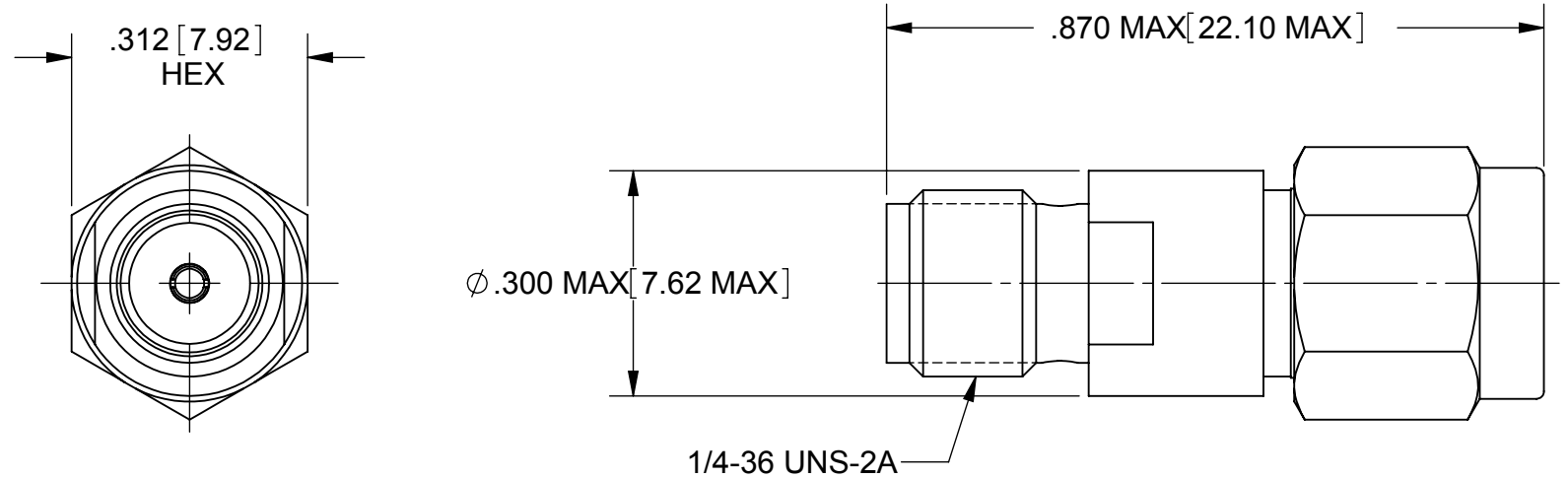
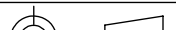


TABLE 1						
dB VALUE	ATTENUATION ACCURACY	VSWR				
		DC-2 GHz	2-4 GHz	4-8 GHz	8-12.4 GHz	12.4-18 GHz
0-6.5 dB	±0.3 dB	1.10:1	1.15:1	1.20:1	1.25:1	1.35:1
7-8.5 dB	±0.4 dB					
9-14.5 dB	±0.5 dB					
15-20 dB	±0.6 dB					

MATERIAL:	SEE NOTES	DIMENSIONS ARE IN INCHES TOLERANCES:		UNLESS OTHERWISE SPECIFIED		<b>SV Microwave, Inc.</b> 2400 Centrepark West Drive, Suite 100 West Palm Beach, FL 33409	
FINISH:	SEE NOTES	FRACTIONAL: $\pm 1/64$ ANGULAR: $X^{\circ}$ $\pm 1^{\circ}0'$ $X^{\circ}X'$ $\pm 15'$ DECIMAL: $.X \pm .030$ $.XX \pm .010$ $.XXX \pm .005$		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 MIC-STD-10. 6) DIA .S' ON COMMON CENTERS TO BE CONCENTRIC WITHIN .005 T.I.F. 7) REMOVE ALL BURRS		TITLE: <b>SMA PLUG TO JACK MICRO ATTENUATOR DC TO 18 GHz</b>	
SURFACE AREA:	N/A	INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994				SIZE <b>B</b> CAGE CODE <b>95077</b> DWG. NO. <b>M3933/25-XX</b>	
<b>PROPRIETARY</b> 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.	<b>THIRD ANGLE PROJECTION</b> 		DRAWN: VMJ 03/07/03 CHECKED: STW 03/09/03 APPROVED: STW 03/09/03		SCALE: 4:1		SHEET 1 OF 2

ROHS COMPLIANT

PRODUCT DATA DRAWING

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
C	DCN 38201	05/11	STW

"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			

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 T.I.R.  
7) REMOVE ALL BURRS

DRAWN: VMJ 03/07/03

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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

SIZE B

CAGE CODE 95077

DWG. NO. M3933/25-XX

SCALE: 4:1

SHEET 2 OF 2