



\* ADD .125 TO OVERALL LENGTH FOR 30 AND 40 dB UNITS

### ELECTRICAL:

NOMINAL IMPEDANCE (OHMS)	50
AVERAGE POWER RATING (MAX. WATTS +25°C)	2.0*
PEAK POWER (MAX. WATTS)	500**
CONNECTOR DURABILITY (MIN. CYCLE)	500
ENGAGEMENT/DISENGAGEMENT (MAX. IN. LBS.)	2.0
* POWER INPUT DERATED LINEARLY FROM 25°C TO .5 WATT AT 125°C.	
** PEAK POWER FOR A DUTY CYCLE OF $5 \times 10^{-4}$ MAXIMUM PULSE DURATION OF 5 MICROSECONDS.	

### ENVIROMENTAL:

OPERATING TEMPERATURE RATING (DEGREE CENTIGRADE)	-65°C TO +125°C
VIBRATION (MIL-STD-202, METHOD 204. COND. D. 20G'S)	
SHOCK (MIL-STD-202, METHOD 213. COND. I. 100G'S)	
TEMPERATURE CYCLING (MIL-STD-202. METHOD 107, COND. B. -65C TO 125°C)	
MOISTURE RESISTANCE (MIL-STD-202. METHOD 106. LESS STEP 7B)	

### MATERIAL & FINISH:

- BODIES AND COUPLING NUT: STAINLESS STEEL PER AMS-5640. UNS S30300. TYPE I. PASSIVATED PER QQ-P-35C. TYPE II
- CONTACTS: BERYLLIUM COPPER PER ASTM-B196. COND. TD04. ALLOY UNS-C17300: GOLD PLATED PER MIL-G-45204. TYPE I. GRADE C. CLASS I: OVER NICKEL PER QQ-N-290. CLASS I.
- LOCK RING: BERYLLIUM COPPER PER ASTM-B196. COND. TD04. ALLOY UNS-C17300.
- BELLOWS SPRING: ELECTRO DEPOSITED NICKEL: GOLD PLATED
- RESISTOR ELEMENT: ALUMINUM NITRIDE SUBSTRATE WITH TANTALUM NITRIDE RESISTOR: GOLD PLATED TERMINATIONS.
- ELEMENT SLEEVE: BRASS PER ASTM-B16, ALLOY 360. GOLD PLATED PER MIL-G-45204. TYPE I. GRADE C. CLASS 1: OVER NICKEL PER QQ-N-290. CLASS I.
- INSULATORS: POLYTETRAFLUOROETHYLENE PER ASTM-D-1457. OR NORYL EN265
- GASKET: RUBBER SILICONE PER ZZ-R-756. CLASS IIB. GRADE 50-60.

### ELECTRICAL CHARACTERISTICS

dB VALUE	ATTENUATION ACCURACY	VSWR MAX.			
		DC-4 GHz	4-8 GHz	8-12.4 GHz	12.4-8 GHz
.5 - 6 dB	+/- .4 dB	1.15:1	1.25:1	1.25:1	1.5:1
7 - 8 dB	+/- .6 dB				
9 - 14 dB	+/- .6 dB				
15 - 20 dB	+/- .6 dB				
30 & 40 dB	+/- .85 dB				

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TOLERANCE

X.XX= .05  
X.XXX= .005  
ANGLE= 2 ± °

FINISH

DWN 5/31/05  
F.G.

DES

APP

CHK

NEXT ASSEMBLY

CODE IDENT: 9V554 FSCM 64998

ATTENUATOR  
SMA JACK TO SMA PLUG

A

RFD-3619-XX