



# ENG. FILE COPY

S/M DESIGN STANDARDS

DRAWING NO.  
2993-6650

REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	50
Frequency Range (ghz)	DC-18.0
Voltage Rating (max. vrms)	335
Temperature Rating (degrees centigrade)	-65° to +165°
VSWR (max.)	1.05 + .008 x FGHZ
Insertion Loss (dB max.)	.03 dB x $\sqrt{\text{FGHZ}}$
RF Leakage (min. dB down)	100 dB-FGHZ
RF High Potential (max. vrms)	670 at 5MHZ
Dielectric Withstanding Voltage (max. vrms)	1000
Insulation Resistance (min. megohms)	5000
Contact Resistance:	
Center Contact (max. milliohms)	3.0
Outer Contact (max. milliohms)	2.0
Center Contact Axial Forces:	
Insertion (max. ounces)	N/A
Withdrawal (min. ounces)	
Connector Durability (min. cycles)	500
Connector Engagement & Disengagement (max. inch lbs.)	2.0

REQUIREMENTS	RATINGS
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 102 - Cond. C (-65°C to + 200°C)
Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)
Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b
Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft) ( 250 vrms)

REMARKS: 1) Recommended Mating Torque: 7-10 inch pounds.

TITLE: SMA, PLUG TO PLUG, CUBE-RIGHT ANGLE ADAPTER, ONE PIECE CONTACT

**SOLITRON/MICROWAVE**  
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.  
2993-6650

REV.  
-