

2300-7510

NOTES:1. MATING:

Interface dimensions per Mil-C-39012/SMB Series and S/M MD-136.

2. MATERIALS:

All Metal parts except Spring and Contact: - Brass per QQ-B-626,  $\frac{1}{2}$  hard, Alloy 360.

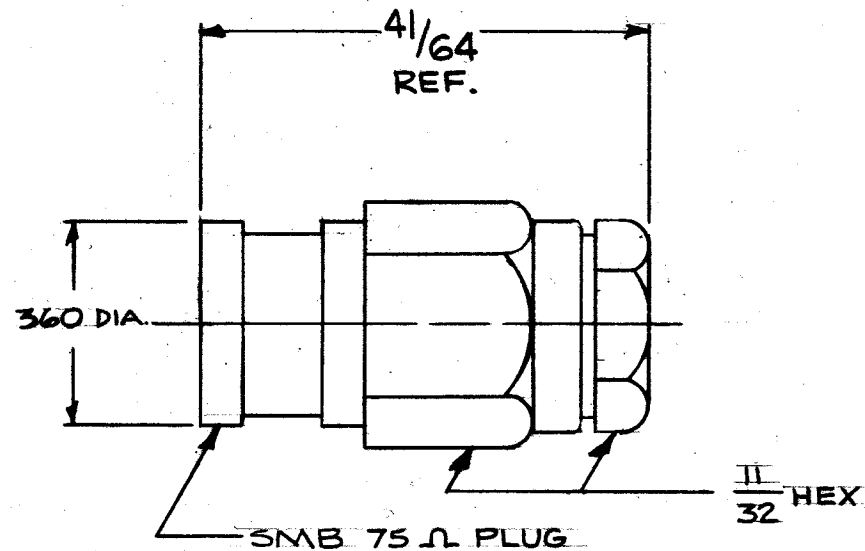
Spring & Contact:---Beryllium Copper per QQ-C-530, condition H.T., Alloy 173.

Insulator:-----Teflon per Mil-P-19468 and L-P-403, Type 1.

3. Finish:

All Metal Parts:----Gold per Mil-G-45204, Type II, Grade C, Class 1 over Copper per Mil-G-14550, Class 4.

## 4. Cable Instructions per S/M300-80-519.



SYM	DESCRIPTION	DATE	APPR.	UNLESS OTHERWISE SPECIFIED			SOLITRON/MICROWAVE		REF.
-	REL. 9729	8-14-84	<i>[Signature]</i>	1. ALL DIMENSIONS ARE AFTER PLATING 2. BREAK ALL CORNERS & EDGES .005 R MAX. 3. CHAMFER 1ST & LAST THREADS 45° 4. SURFACE ROUGHNESS 63 ✓ MIL-STD-10 5. DIAMETERS ON COMMON CENTERS TO BE CONCENTRIC WITHIN T.I.R. 6. REMOVE ALL BURRS			PORT SALERNO, FLORIDA		ENGINEERING DATA DRAWING
				DIMENSIONS ARE IN INCHES TOLERANCES			MATERIAL		TITLE
				DECIMALS	FRACTIONAL	ANGULAR	FINISH		SMB PLUG 75 Ω TO RG 187 CABLE WEDGE CLAMPING
				.X ± .030		X' ± 1'0"	AREA		
				.XX ± .015	± 1/64		SCALE		DRAWING NO.
				.XXX ± .005		X'X' ± 15'	CODE IDENT. NO.		2300-7510 SHT 1 of 2
				DRAWN KC DATE 8-14-84		SIZE			
				CHECKED <i>RG</i> DATE 8/20/84		95077		A	
				APPROVED <i>TD</i> DATE 8-20-84					

# ENG. FILE COPY

S/M DESIGN STANDARDS

DRAWING NO.  
2300-7510

REQUIREMENTS	RATINGS	REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	75	Vibration	MIL-STD-202 Method 204 Cond. D (20G's)
Frequency Range (ghz)	DC-4.0	Shock	MIL-STD-202 Method 213 Cond. I (100G's)
Voltage Rating (max. vrms)	335	Temperature Cycling	MIL-STD-202 Method 102 - Cond. C (-65°C to +200 °C)
Temperature Rating (degrees centigrade)	-65 to + 165	Corrosion	MIL-STD-202 Method 101 Cond. B (48 Hrs.)
VSWR (max.) *	N/A xFGHz	Moisture Resistance	MIL-STD-202 Method 106 Less Step 7b
Insertion Loss (dB max.) *	N/A x $\sqrt{FGHz}$	Barometric Pressure (Altitude)	MIL-STD-202 Method 105 - Cond. C (70,000 ft) ( 250 vrms)
RF Leakage (min. dB down)	65 dB-FGHz	Center contact Captivation: Min. Axial Force	6 LBS.
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) Outer Contact (max. milliohms)	6.0 1.0		
Center Contact Axial Forces: Insertion (max. ounces) Withdrawal (min. ounces)	40 1.0		
Connector Durability (min. cycles)	500		
Connector Engagement & Disengagement (max. inch lbs.)	14.0		

REMARKS: 1) Recommended Mating Torque: N/A  
\* - CABLE IMPEDANCE NOT 50 OHMS.

TITLE: SMB PLUG 75Ω to RG187 CABLE,  
WEDGE CLAMPING

**SOLITRON/MICROWAVE**  
PORT SALERNO, FLORIDA

SHT. 2 of 2

DRAWING NO.  
2300-7510

REV.  
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