ENG. FILE COPY

2302-0008

NOTES:

1. MATING:

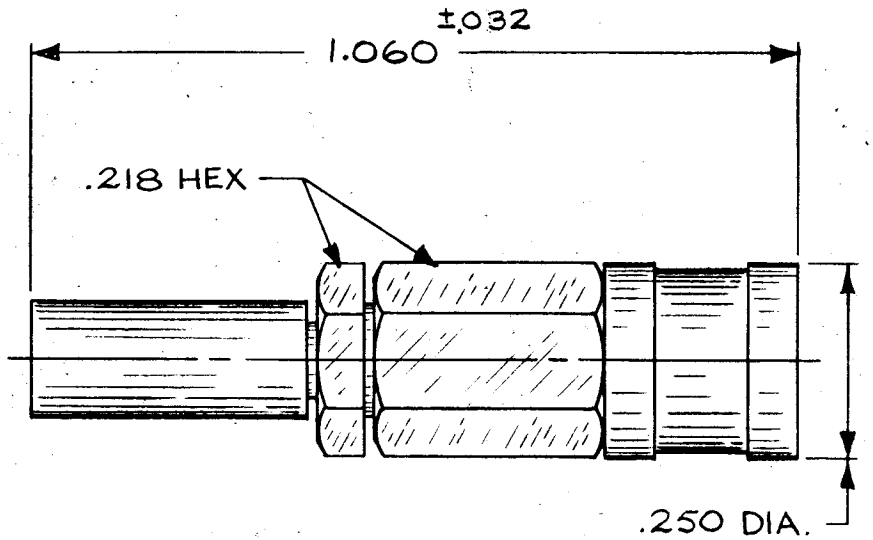
   Interface dimensions per Mil-C-39012/SMB series and Solitron/Microwave MD-121.

2. MATERIALS:

   Body, sleeve: Brass per QQ-B-626, Comp. 22, ½ hard.
   Contact, Spring: Beryllium Copper per QQ-C-530, Cond. H.
   Crimp Ring: Copper per QQ-B-825A, annealed.
   Dielectric: Teflon per Mil-P-19468.

3. FINISH:

   All metal parts: Gold per Mil-G-45204, Type II, Class 2; over copper per Mil-C-14550, Class 4.



4. Accomodates RG 174, 188, 316/U Cables.

SYM	DESCRIPTION	DATE	APPR.
—	REL. DCNF-5911	6-77	DGG

UNLESS OTHERWISE SPECIFIED,
1. REMOVE ALL BURRS
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. ALL DIMENSIONS ARE AFTER PLATING

DIMENSIONS ARE IN INCHES
TOLERANCES

DECIMALS	FRACTIONAL	ANGULAR
.X ± .030	± 1/64	X° ± 1°0'
.XX ± .015		
.XXX ± .005		X°X' ± 15'

DRAWN R.PRACH DATE 6.16.77
CHECKED DATE
APPROVED DGG DATE 6/20/77

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

MATERIAL

FINISH

REF.
ENGINEERING-DATA DRAWING

TITLE
SMB, PLUG, CRIMP TYPE, CAPTIVE CONTACT

SCALE	CODE IDENT. NO.	SIZE
4x	95077	A

DRAWING NO. 2302-0008

SHEET 1 OF 2

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"DESIGN CRITERIA"

2302-0008

REQUIREMENT	RATING
Nominal Impedance (ohms)	50
Frequency Range (ghz)	DC-4.0
Voltage Rating (max. vrms)	335
Temperature Rating (degrees centigrade)	-65 To +165
VSWR (max.)	$1.20 + .003 \times FGHz$
Insertion Loss (dB max.)	$.08 \times \sqrt{FGHz}$
RF Leakage (min. dB down)	60 dB-FGHz
RF High Potential (max. vrms)	670 AT 5MHz
Dielectric Withstanding Voltage (max. vrms)	1000
Insulation Resistance (min. megohms)	1000
Contact Resistance Center Contact (max. milliohms) Outer Contact (max. milliohms)	 6.0 1.0
Center Contact Axial Forces Insertion (max. ounces) Withdrawal (min. ounces)	 40.0 1.0
Connector Durability (min. cycles)	500
Connector Engagement & Disengagement (max. inch lbs.)	1.0

REQUIREMENT	RATING
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)
Contact Captivation Axial Force (min. lbs.)	4.0
Barometric Pressure (Altitude)	MIL-STD-202 method 105 Cond. C (70,000 ft.) (375 vrms)

REMARKS: 1.) RECOMMENDED MATING TORQUE:

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TITLE				
SMB PLUG FOR RG 174, 188 316/U CABLE	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	SHEET 2 OF 2	DRAWING NO. 2302-0008	REV -