K&E 10 7188 2-72 2300•

2300-0007

NOTES

1. MATING:
   Interface dimensions per Mil-C-39012/SMB Series and Solitron/Microwave MD-121.

2. MATERIALS:
   Sleeve:——Brass per QQ-B-626, 1/2 Hard, Alloy 360.
   Body, Contact & Spring:——Beryllium Copper per QQ-C-530, Cond. H.T., Alloy 173.
   Dielectric:——Teflon per Mil-P-19468 and L-P-403, Type I.

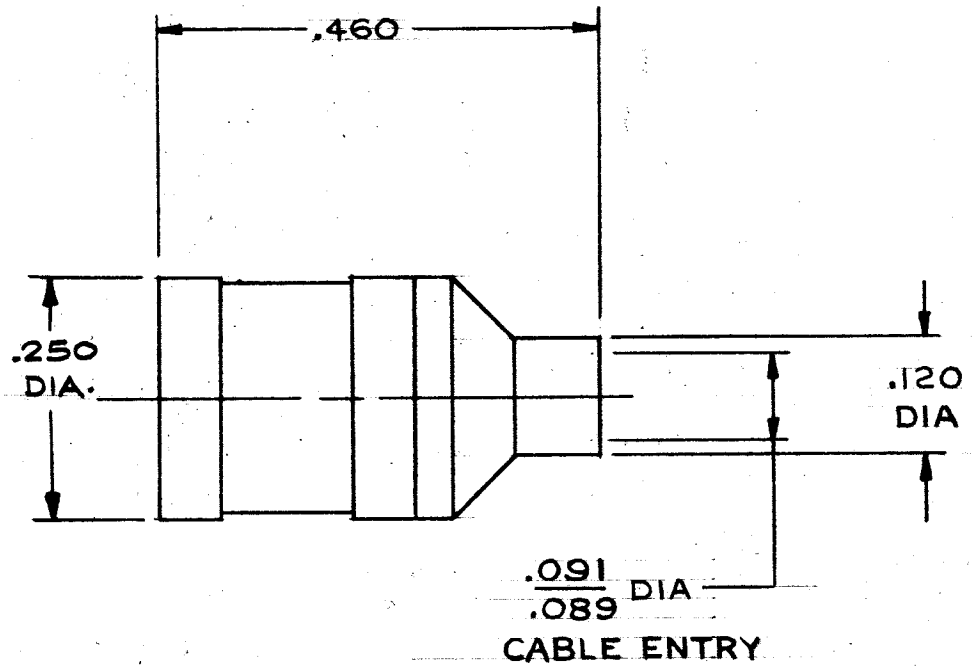
3. FINISH:
   All Metal Parts Except
   Contact:——Gold per Mil-G-45204, Type II, Grade C, Class 1; over Copper per Mil-C-14550, Class 4.

   Contact:——Gold per Mil-G-45204, Type II, Grade C, Class 2; over Copper per Mil-C-14550, Class 4.

4. Cable Assembly Instructions:——Per S/M 300-80-466.

5. Contact captivated.

6. Connector accommodates .086 Semi-Rigid Cable.



SYM	DESCRIPTION	DATE	APPR.
—	REL DCN F-8297	5/81	
A	REV DCN F-8889	5/82	

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		X°X' ± 15'
.XXX ± .005		

DRAWN WJT DATE 5-6-81
CHECKED [illegible] DATE 5-15-81
APPROVED DGG DATE 5/15/81

SOLITRON/MICROWAVE
PORT SALERNO, FLORIDA

REF.
ENGINEERING DATA DRAWING

MATERIAL

FINISH

TITLE
SMB STRT PLUG
FOR .086 S.R. CABLE
SOLDER-ON

SCALE	CODE IDENT. NO.	SIZE	DRAWING NO.
—	95077	A	2300-0007

SHEET 1 OF 2

ENG. FILE COPY

S/M DESIGN STANDARDS

DRAWING NO. 2300-0007

REQUIREMENTS	RATINGS
Nominal Impedance (ohms)	50
Frequency Range (ghz)	DC-4.0
Voltage Rating (max. vrms)	335
Temperature Rating (degrees centigrade) 2)	-65^{o} to $+105^{o}$
VSWR (max.)	1.15 + .02 xFGHz
Insertion Loss (dB max.)	.09 $x\sqrt{FGHz}$
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 (lbs. axial force)	14.0

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 + 115° 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)
Captivation (Min. axial force)	6.0 lbs.

REMARKS: 1) Recommended Mating Torque:

2) Connector is derated from $+165^{o}$c when mated with cable specified.

TITLE:		SHT.	DRAWING NO.	REV.
SMB, STRAIGHT JACK FOR .086 SEMI-RIGID CABLE, SOLDER-ON	SOLITRON/MICROWAVE PORT SALERNO, FLORIDA	2 of 2	2300-0007	A