P/N	INTERFACE(S)	(Ø A)	(B)	(C)	(Ø D)	FIG.
−1CCSF	FULL DETENT	.116	.150	.310	.030	1
−2CCSF	LIMITED DETENT	.120	.150	.310	.030	1
−3CCSF	SMOOTH BORE	.125	.150	.310	.030	1
−4CCSF	FULL DETENT	.116	.115	.185	.030	1
−5CCSF	SMOOTH BORE	.125	.090	.187	.030	1
−6CCSF	CATCHER'S MITT (MOD.)	.125	NR	.200	.030	2
−7CCSF	CATCHER'S MITT (MOD.)	.125	NR	.160	.012	2
−8CCSF	CATCHER'S MITT	.125	.250	.500	.030	3

REVISIONS

ZONE	REV	DESCRIPTION	DATE	BY
–	B	ECO 11639 (ADD DASH NO.)	05/18/00	IMG
–	C	ECO 13365	05/31/01	AGS
–	D	ECO 19829	04.10.07	DKN

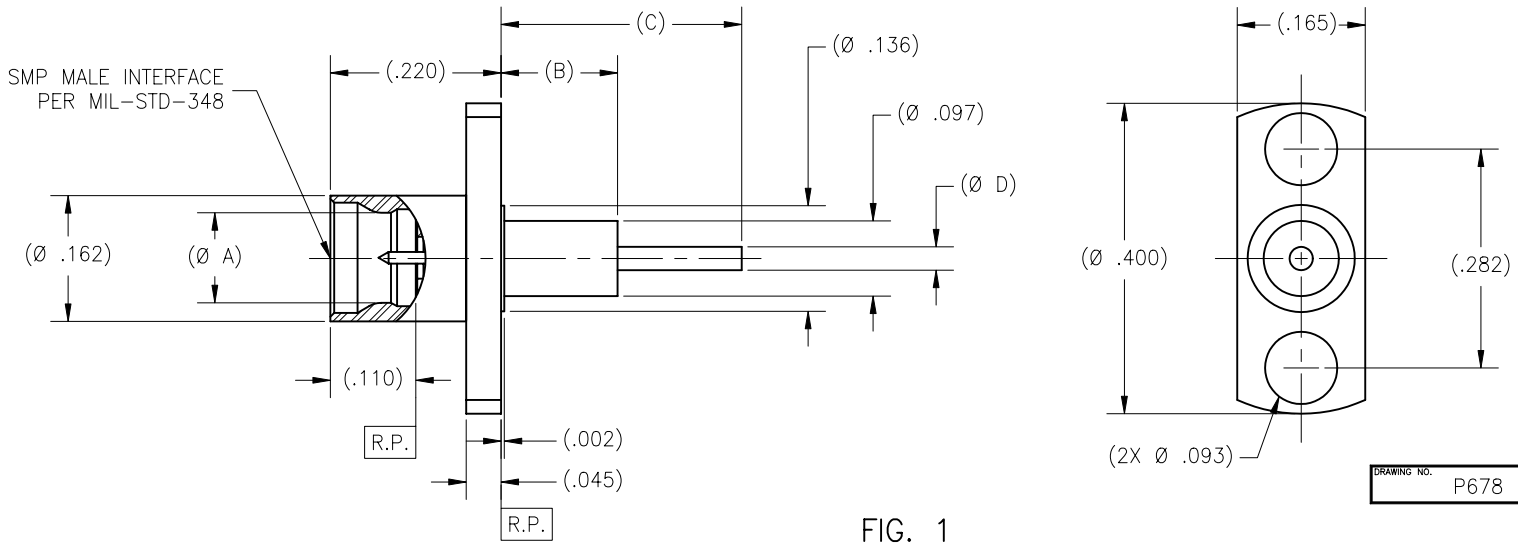

FIG. 1

DRAWING NO. P678 REV. D

MATERIAL:

Body:
303 sst per ASTM A−582
Center Conductor:
BeCu Alloy per ASTM B−196
Insulator:
PTFE per ASTM D−1710

ELECTRICAL:

Impedance: 50 Ohms Nom.
Freq. Range: DC TO 40 GHz
VSWR: 1.20:1 DC − 18GHz
1.35:1 18 − 26.5GHz
1.50:1 26.5 − 40GHz
Insertion Loss: Consult factory
Working Voltage: 335 Vrms @ Sea Level
Dielectric Withstand Voltage: 500 V rms
RF HiPot Voltage: 325 Vrms Min @ 5MHz
Corona Level: 125 Vrms @ 70,000 ft
Insulation Resistance: 5000 Mohms
Contact Resistance:
Center Conductor: 2.0 Milliohms
RF Leakage: −80 dB to 3GHz min.
−65 dB from 3 to 26.5 GHz min.

MECHANICAL:

Interface Dimensions:
MIL−STD−348
Connector Durability:
Depend on detent
Force to Engage:
Full detent: 10 lbs
Limit detent: 8 lbs
Smooth bore: 1 lb
Force to Disengage:
Full detent: 5 lbs
Limit detent: 2 lbs
Smooth bore: .5 lb

ENVIRONMETAL:

Temperature Range: −65° to +165°.
Thermal Shock:
Mil−Std−202, Method 107, Test Cond. B.
Moisture Resistance:
Mil−Std−202, Method 106, except step 7b shall be omitted. Insulation resistance at least 1000 MegOhms within 5 minutes after removal from humidity.
Corrosion:
Mil−Std−202, Method 101, Test Cond. B.
Vibration:
Mil−Std−202, Method 204, Test Cond. D.
Shock:
Mil−Std−202, Method 213, Test Cond. I.

FINISH:

Center Conductor:
Gold plate per ASTM B−488 over Nickel plate per AMS−QQ−N−290
Body:
Passivated per ASTM A−967 OR AMS−QQ−P−35

APPLICABLE TENSOLITE DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE
THIS DRAWING EMBODIES A CONFIDENTIAL PROPRIETARY DESIGN ORIGINATED BY TENSOLITE COMPANY AND ALL DESIGN, MANUFACTURING REPRODUCTION, USE AND SALE RIGHTS REGARDING THE SAME ARE EXPRESSLY RESERVED. IT IS SUBMITTED UNDER A CONFIDENTIAL RELATIONSHIP FOR A SPECIFIED PURPOSE AND THE RECIPIENT AGREES BY ACCEPTING THIS DRAWING NOT TO SUPPLY OR DISCLOSE ANY INFORMATION REGARDING IT TO ANY UNAUTHORIZED PERSON TO INCORPORATE IN OTHER PROJECTS ANY SPECIAL FEATURES PECULIAR TO THIS DESIGN. ALL PATENT RIGHTS HERETO ARE EXPRESSLY RESERVED BY TENSOLITE COMPANY, LONG BEACH, CALIFORNIA 90815.

TOLERANCES AND NOTES EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32

1. MACHINE FINISH: 63 √ RMS
2. BREAK ALL SHARP EDGES .003 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H−28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

MATERIAL	SIZE	SPECIFICATION	PROCUREMENT
–	–	–	–

APPROVAL INITIALS		DATE
DRAWN BY	JLB	04.22.97
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	ATV	04.11.07
MFG ENGG		

Tensolite
HIGH PERFORMANCE CABLES & INTERCONNECT SYSTEMS
Long Beach, California 90815

TITLE SMP MALE 2 HOLE FLANGE MOUNT STRAIGHT TERMINATION

SCALE 10:1 | SUB−DIRECTORY\FILENAME _OLP\ | SHEET 1 OF 1

SIZE C | CAGE CODE 30990 | DRAWING NO. P678 | REV. D

ENG−DWG REV B