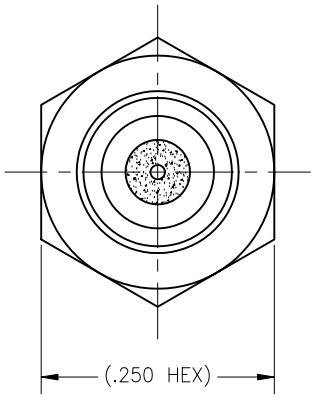
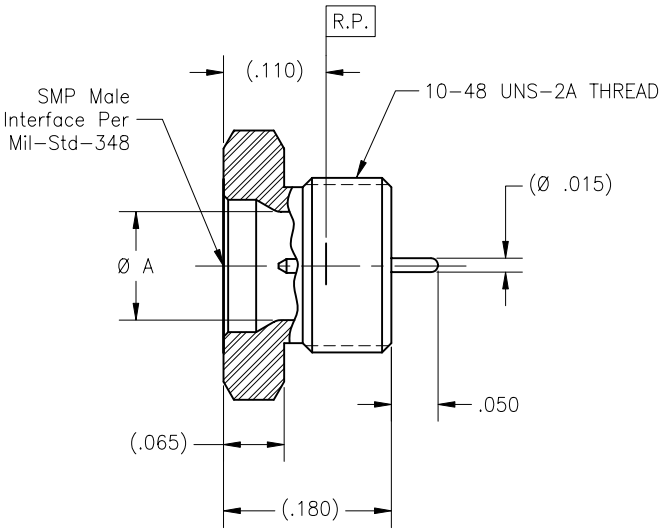
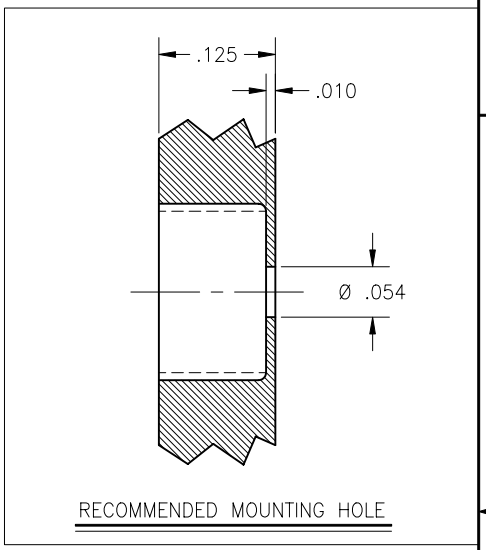
P/N	INTERFACE(S)	Ø A
−1CC	FULL DETENT	(.116)
−2CC	LIMITED DETENT	(.120)
−3CC	SMOOTH BORE	(.125)

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
–	C	ECO 22455	09.11.09	DKN







MATERIAL(S):

Body:
303 sst per ASTM A−582.
Center Conductor:
Kovar per ASTM F 15.
Glass Seal:
Corning 7070

ELECTRICAL:

Impedance: 50 Ohms nominal.
Freqancy Range: DC to 18 GHz.
VSWR: 1.10 + .005 X f(GHz) max.
Insertion Loss: $.03\sqrt{f(GHz)}$ dB.
Working Voltage: 335 Vrms @ sea level.
Dielectric Withstanding Voltage: 500 Vrms.
R.F. HiPot Voltage: 325 Vrms Min @ 5MHz.
Corona Level: 190 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms.
Contact Resistance:
Center Conductor: 4.0 Milliohms maximum.
Permeability: Less than 2.0 mu.
R.F. Leakage: −80 dB max to 3.0 GHz.
−65 dB max to 18.0 GHz.

MECHANICAL:

Interface Dimensions:
MIL−STD−348
Connector Durability:
Full detent: 100 Cycles.
Limited Detent: 500 Cycles.
Smooth Bore: 1,000 Cycles.
Center Contact Retention:
10 lbs Min Axial.
Force to Engage and Disengage:

	Engage	Disengage
Full detent:	15 lbs max	5 lbs min
Limited Detent:	10 lbs max	2 lbs min
Smooth Bore:	2 lbs max	.5 lbs min

Hermeticity Leak Rate:
$1X10^{-8}$ cc/sec He @ 1 atm.

ENVIRONMENTAL:

Temperature Range: −65°C to +165°C.
Thermal Shock:
Mil−Std−202, Method 107, Test Cond. B.
Moisture Resistance:
Mil−Std−202, Method 106, Insulation resistance at least 200 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.
Solderability:
Mil−Std−202, Method 208.

FINISH(ES):

Body & Center Conductor:
Gold plate per ASTM B 488, over nickel under plate per SAE AMS−QQ−N−290.

APPLICABLE CARLISLE IT DOCUMENTS		
WORK STD	PROD INST	ASSY INST
NA	NA	NA

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.

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MATERIAL	SIZE	SPECIFICATION	PROCUREMENT

APPROVAL INITIALS		DATE
DRAWN BY	BRD	02/15/96
CHECKED BY	P.MAO	09.11.09
TEST ENGG		
QUALITY		
DESIGN ENGG	P.MAO	09.18.09
MFG ENGG		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SMP MALE EXTERNAL THREAD PANEL MOUNT HERMETIC SEAL TO STRAIGHT TERMIN.

SCALE	SUB−DIRECTORY\FILENAME	SHEET
10:1	_OLPXXX\OLP683	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	P683	C

ENG−DWG REV. C