P/N	Ø A	INTERFACE	INTERFACE (ON HEX SIDE)	FIGURE
−1CCSF	.116±.001	FULL DETENT	CATCHERS MITT	1
−2CCSF	.120±.001	LIMITED DETENT		
−3CCSF	.125±.001	SMOOTH BORE		
−4CCSF	.116±.001	FULL DETENT	SMOOTH BORE	2
−5CCSF	.120±.001	LIMITED DETENT		
−6CCSF	.125±.001	SMOOTH BORE		
−7CCSF	.116±.001	FULL DETENT	LIMITED DETENT	3
−8CCSF	.120±.001	LIMITED DETENT		
−9CCSF	.125±.001	SMOOTH BORE		
−10CCSF	.116±.001	FULL DETENT	FULL DETENT	4
−11CCSF	.120±.001	LIMITED DETENT		
−12CCSF	.125±.001	SMOOTH BORE		

REVISIONS			
REV	DESCRIPTION	DATE	BY
D	ECO 23091	4/13/10	PCV
E	ECO 29335 (ADD −4 THRU −12)	09.03.15	DKN
F	ECO 202352 (ADD NEW NAME)	12.02.24	DKN

CONFIGURATIONS SHOWN ON SHT 2 & 3

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 18 GHz
VSWR: 1.02 + .007 x f (GHz)
Insertion Loss: $.06\sqrt{f(GHz)}$ dB max
Working Voltage: 335 Vrms @ Sea Level
Dielectric Withstand Voltage: 500 V rms
RF HiPot Voltage: 325 Vrms Min @ 5MHz
Corona Level: 190 Vrms @ 70,000 ft
Insulation Resistance: 5000 Mohms
Contact Resistance:
Center Contact: 6.0 Milliohms max.
Outer Contact: 2.0 Milliohms max.
RF Leakage: −(90 − fGHz) dB min

MECHANICAL:

Mating Characteristics:
Interface per Mil−Std−348.
Force To Engage & Disengage:
Engage:
Full detent: 10.0 lbs max
Limited detent: 5.0 max
Smooth bore/Catchers mitt: 2.0 lbs max
Disengage:
Full detent: 2.0 lbs min
Limited detent: 1.5 lbs min
Smooth bore/Catchers mitt: .50 lbs min
Center Contact Retention:
Axial Force: 1.5 pounds min.
Radial Torque: NA
Connector Durability:
Depend on detent

ENVIRONMETAL:

Temp. Range: −65°C to +165°C
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, 1,000 MegaOhms 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:

Body:
Passivate per ASTM A−967.
Center Conductor:
Gold plate per ASTM B−488, Type II, Code C, Class 1.25, over nickel under plate per SAE AMS−QQ−N−290, class 1.

APPLICABLE Amphenol CDI DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

TOLERANCES AND NOTES EXCEPT AS NOTED
INTERPRET DRAWING PER ASME Y14.5−2018
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			SPECIFICATION	PROCUREMENT

APPROVAL	INITIALS	DATE
DRAWN BY	DKN	11.11.05
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DNg	4/20/10
MFG ENGG		
ECO APPRV	DNg	12.02.24

Amphenol CDI
12900 Alondra Blvd.
Cerritos, CA 90703

TITLE: SMP MALE BULKHEAD TO SMP MALE, ADAPTER

SCALE	DIRECTORY\SUB−DIRECTORY	SHEET	OF
10:1	_OUTLINE\	1	3

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	P912	F

ENG−DWG REV. H

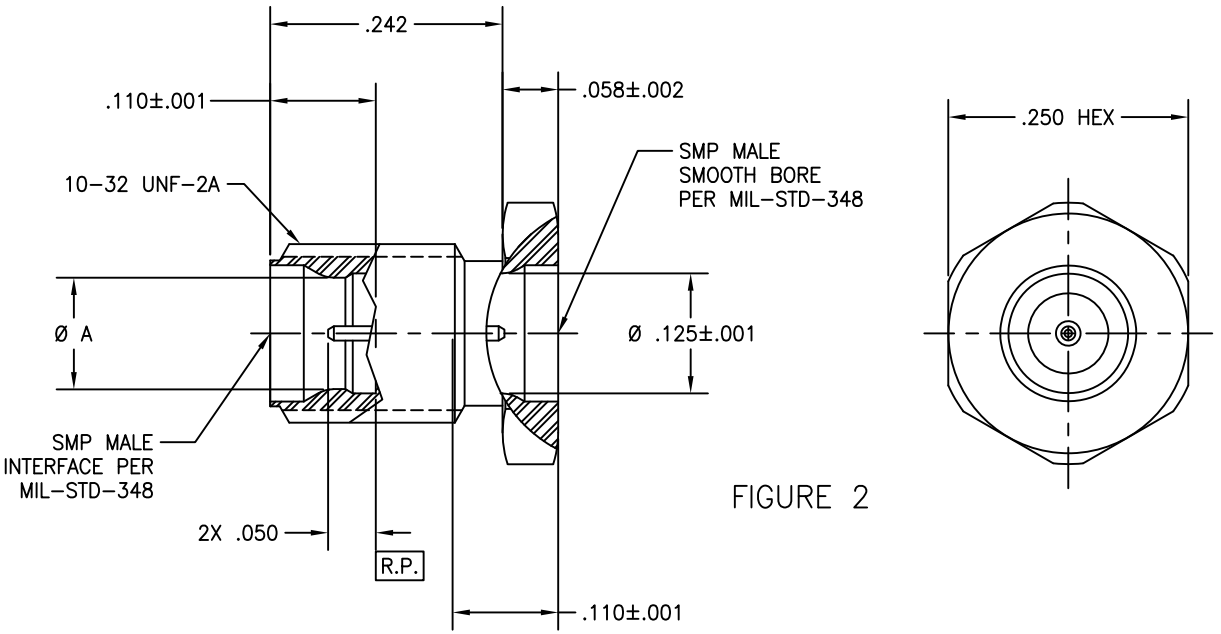


FIGURE 2

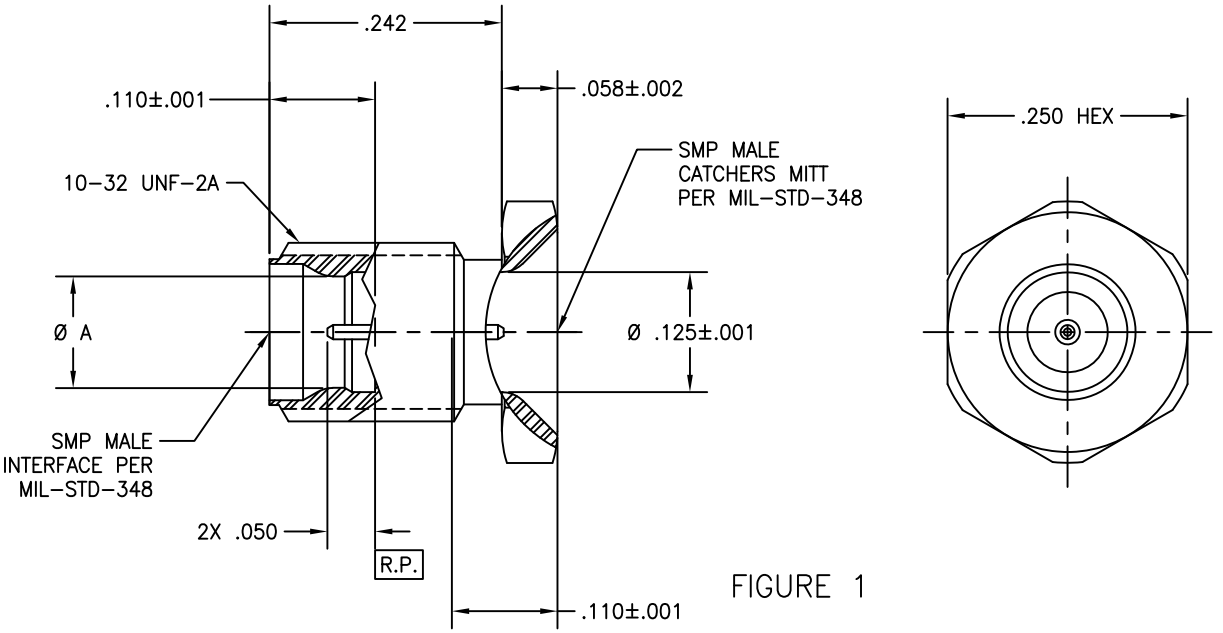
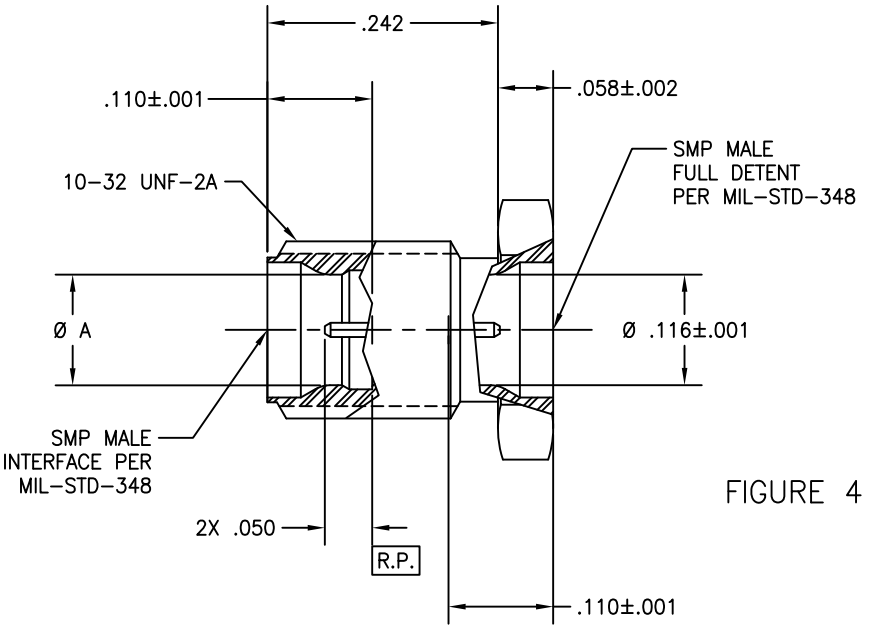


FIGURE 1

SCALE	DIRECTORY\SUB-DIRECTORY	SHEET 2 OF 3
NONE	_OUTLINE\	
SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	P912	F

ENG-DWG REV. H



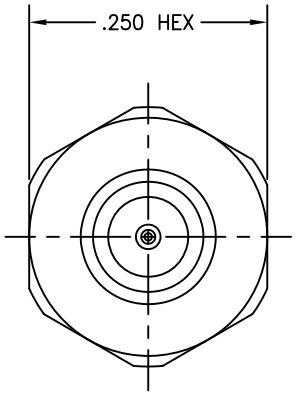
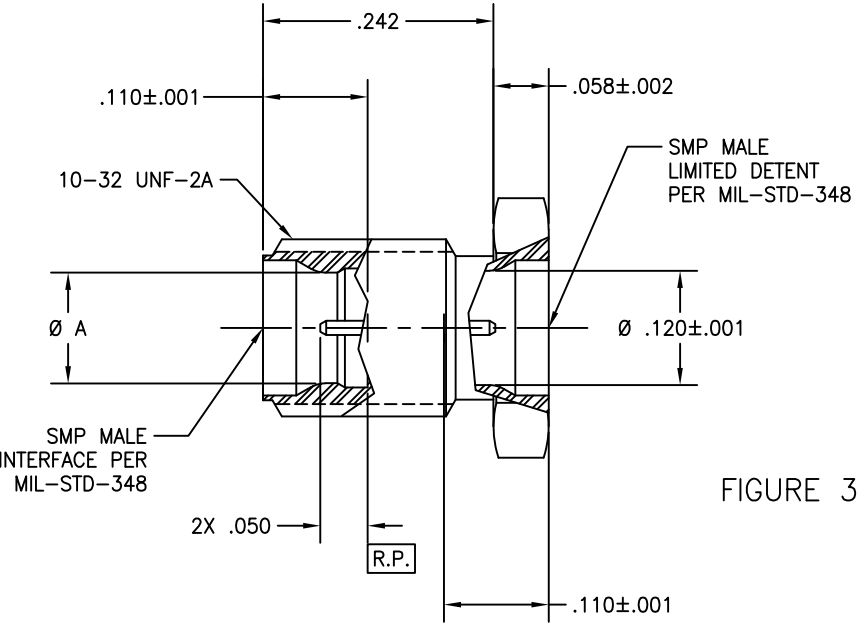


FIGURE 4



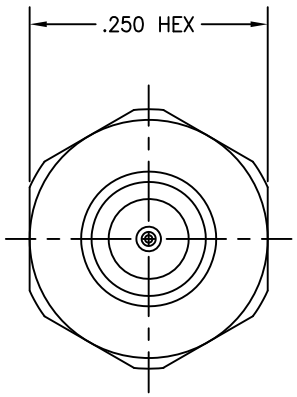


FIGURE 3

SCALE	DIRECTORY\SUB–DIRECTORY	SHEET 3 OF 3
NONE	_OUTLINE\	
SIZE C	CAGE CODE 30990	DRAWING NO. P912 REV. F

ENG–DWG REV. H