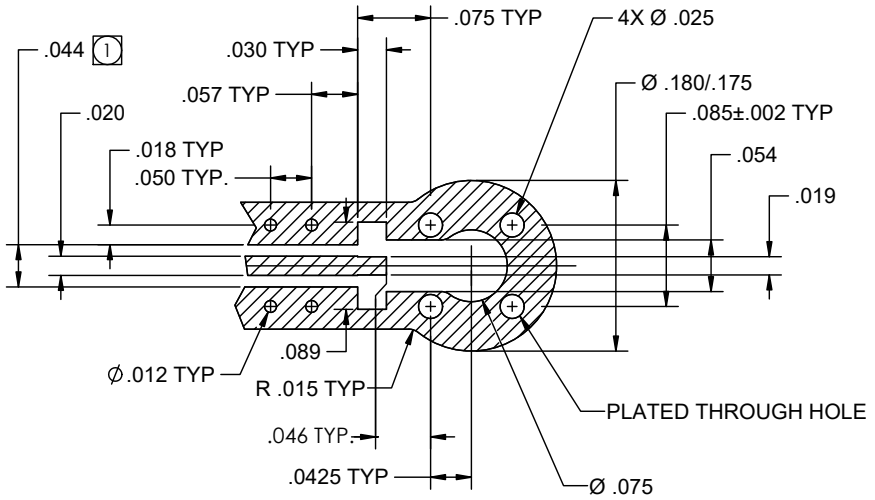
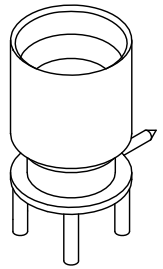
PART NO.	INTERFACE(S)	Ø A	B	FIGURE(S)
-1CC	FULL DETENT	.116±.001	.075	1
-2CC	LIMITED DETENT	.120±.001	.075	1
-3CC	SMOOTH BORE	.125±.001	.075	1
-4CC	CATCHERS MITT	.125±.001	.075	2
-5CC	FULL DETENT	.116±.001	.140	1
-6CC	LIMITED DETENT	.120±.001	.140	1
-7CC	SMOOTH BORE	.125±.001	.140	1
-8CC	CATCHERS MITT	.125±.001	.140	2
-9CC	LIMITED DETENT	.120±.001	.140	1
-1CCT	FULL DETENT	.116±.001	.075	3
-2CCT	LIMITED DETENT	.120±.001	.075	3
-3CCT	SMOOTH BORE	.125±.001	.075	3
-4CCT	CATCHERS MITT	.125±.001	.075	4
-5CCT	FULL DETENT	.116±.001	.140	3
-6CCT	LIMITED DETENT	.120±.001	.140	3
-7CCT	SMOOTH BORE	.125±.001	.140	3
-8CCT	CATCHERS MITT	.125±.001	.140	4

REVISIONS			
REV.	DESCRIPTION	DATE	BY
M	ECO 35550 (ADD-9CC; -1CCT THRU -4CCT)	03.12.20	DT
N	ECO 36035(ADD-5CCT THRU -8CCT)	10.13.20	DT
P	ECO 202352 (ADD NEW NAME)	12.02.24	DKN



RECOMMENDED PCB MOUNTING PATTERN

(1)



NOTE(S) :

(1) DIMENSIONS SHOWN ARE FOR ROGERS 4350 PCB MATERIAL.
THESE DIMENSIONS MAY VARY DEPENDING ON PCB MATERIAL USED.

(2) SHADED AREA OF BODY & CONTACT AREA NOTED TO BE PRE-TINNED USING Sn63Pb37 SOLDER.

MATERIAL(S):

SMP Body, Rear Body:
Brass Alloy per ASTM B-16.
or BeCu Alloy per ASTM B-196.
Center Conductor :
Brass Alloy per ASTM B-16.
Insulator :
Torlon per AMS 3670 or ASTM D-5204.
*MSL 4

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 18 GHz
VSWR: 1.15:1 max to 18 GHz.
Insertion Loss: .10 dB max to 18 GHz.
Working Voltage: 335 Vrms @ Sea Level
Dielectric Withstanding Voltage: 500 Vrms min.
R.F. HiPot Voltage: 325 Vrms min. @ 5MHz
Corona Level: 125 Vrms @ 70,000 ft
Insulation Resistance: 5,000 MegOhms min.
Contact Resistance:
Center Contact: 6.0 Milliohms max
Outer Contact: 2.0 Milliohms max

MECHANICAL(S):

Mating Characteristics:
Interface per MIL-STD-348.
Force to Engage and Disengage :
Engage :
Full Detent : 15 lbs max
Limited Detent : 10 lbs max
Smooth Bore / Catchers Mitt : 2 lbs max
Disengage :
Full Detent : 5.0 lbs max
Limited Detent : 2.0 lbs max
Smooth Bore / Catchers Mitt : .50 lbs max
Center Contact Retention :
Axial Force : 1.5 pounds min.
Radial Torque : NA
Connector Durability :
Depend on Detent.

ENVIRONMENTAL(S):

Temperature 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 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(ES):

SMP Body:
Gold plate per ASTM B-488, Type II, Code C, .000010 min thick,
over Nickel under plate per SAE-AMS-QQ-N-290, Class 1, .000050 min thick.
Rear Body: (for Tinned version)
Copper plate per SAE-AMS 2418J, .000100/.000200 thick; 60/40 fuse tin-lead per SEA-AMS 81728C, .000100/.000300 thick;
Center Conductor:
Gold plate per ASTM B-488, Type II, Code C, .000050 min thick,
over Nickel under plate per SAE-AMS-QQ-N-290, Class 1, .000050 min thick.
Note: For Tinned version, certain area of C/C to be de-golded using Sn63Pb37.

APPLICABLE Amphenol CDI DOCUMENTS		
WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA
-		

TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32
INTERPRET DRAWING PER ASME Y14.5 - 2018
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		
APPROVAL	INITIALS	DATE
DRAWN BY	DKN	08.10.99
CHECKED BY	-	-
TEST ENGR	-	-
QUALITY	-	-
DESIGN ENG	JCB	03.28.07
MFG. ENGR	-	-
ECO APPRV	DNg	12.02.24

-	-
SPECIFICATION	PROCUREMENT

Amphenol CDI 12900 Alondra Blvd. Cerritos, CA 90703

TITLE: SMP MALE STRAIGHT PCB SURFACE MOUNT

SCALE	SUB-DIRECTORY/	SHEET
16:1	_OUTLINE\	1 OF 2

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	P797	P

ENG-SW REV. H

FIGURE 1

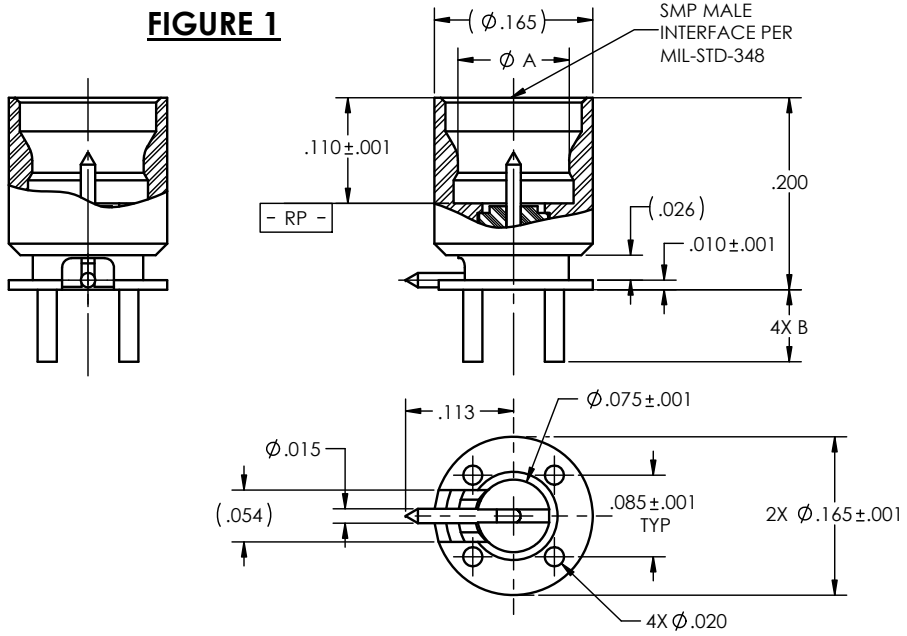


FIGURE 2

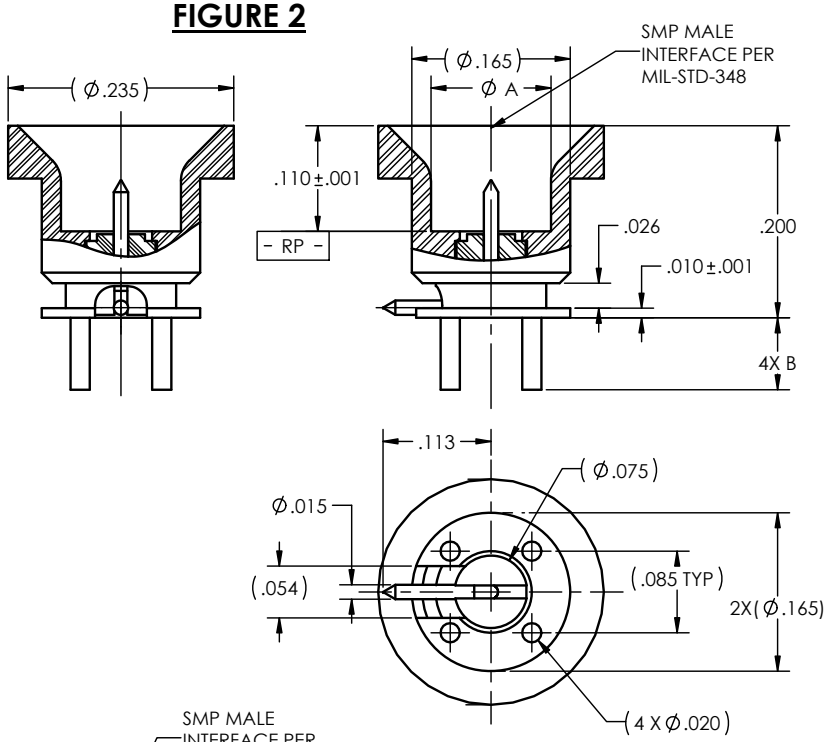


FIGURE 3

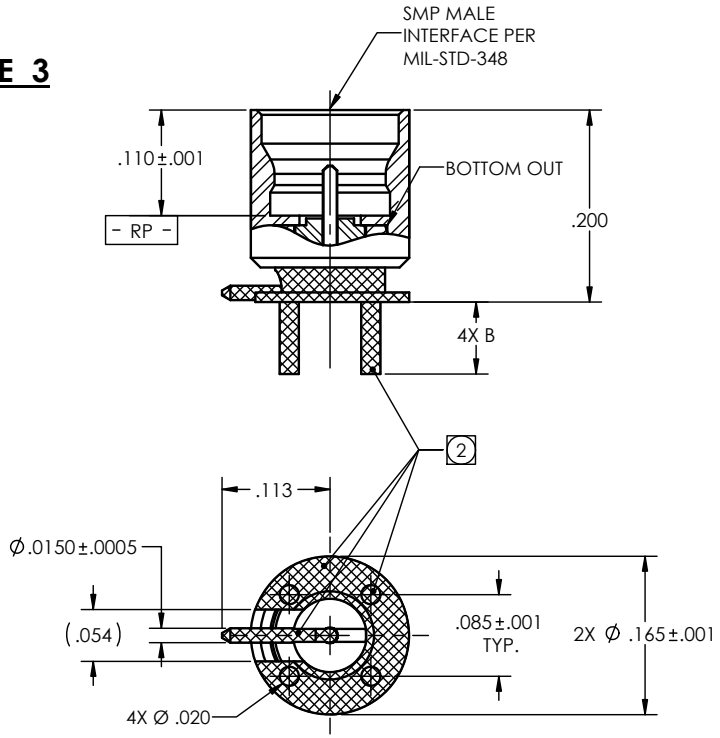
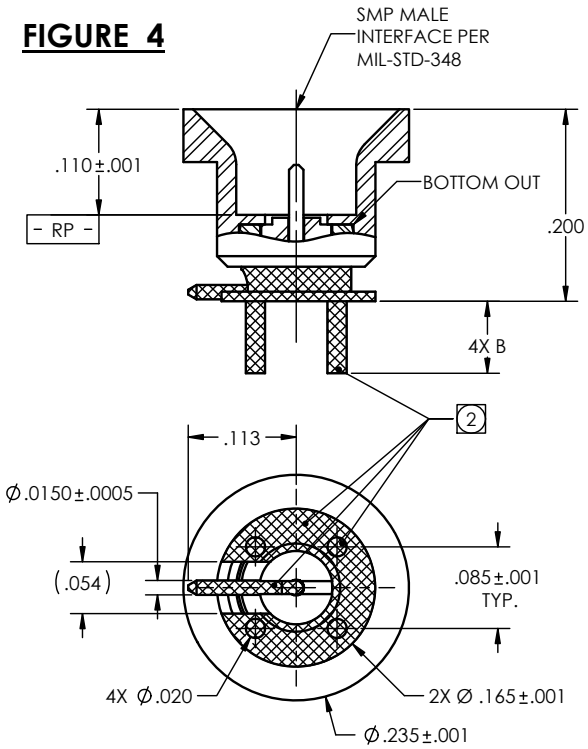


FIGURE 4



SCALE 16:1	SUB-DIRECTORY/ _OUTLINE\		SHEET 2 OF 2
SIZE C	CAGE CODE 30990	DRAWING NO. P797	REV. N