

P/N	A	FIGURE(S)
-1CC	.768/.770	1
-2CC	.850/.852	1
-3CC	1.365/1.367	1
-4CC	.439/.441	2
-5CC	.768/.770	2
-6CC	.414/.416	1
-7CC	.427/.429	1
-8CC	.538/.540	3
-9CC	.528/.530	3

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	BY
-	D	ECO 23834	11.18.10	P.MAO

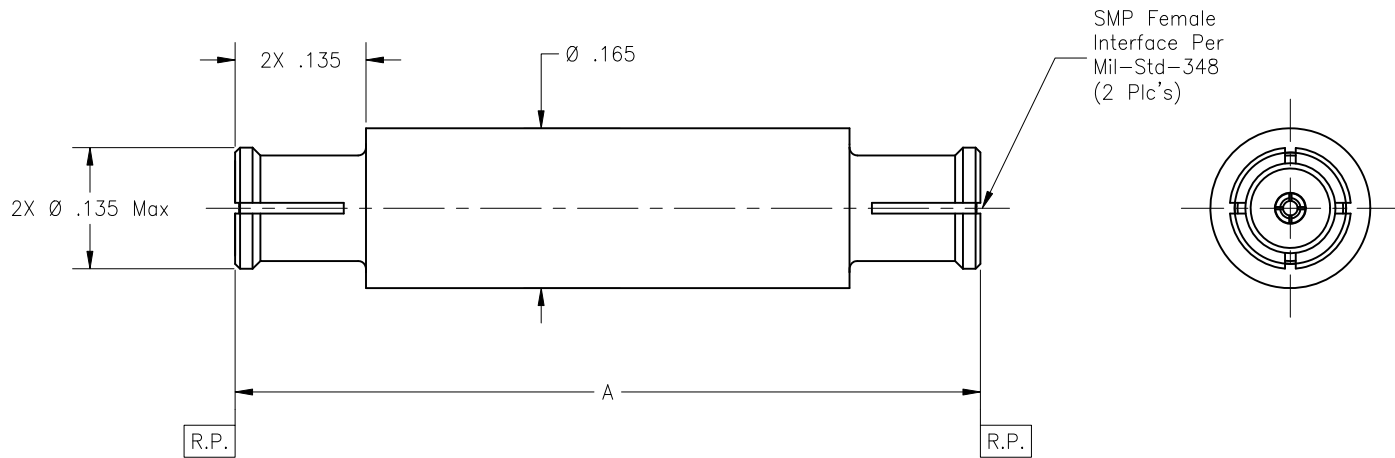


FIGURE 1

**MATERIAL(S):**  
 Body & Center Conductor:  
 BeCu alloy per ASTM B-196.  
 Insulator:  
 Teflon per ASTM D-1710.  
 O-Ring:  
 Silicone per Mil-G-83528.

**ELECTRICAL:**  
 Impedance: 50 Ohms nominal.  
 Frequency Range: DC to 40 GHz.  
 VSWR: 1.05 + .008 f(GHz).  
 Insertion Loss: .01 X √f(GHz).  
 Working Voltage: 335 Vrms max @ sea level.  
 Insulation Resistance: 5,000 MegOhms.  
 Dielectric Withstanding Voltage: 500 Vrms.  
 RF HiPot Voltage: 325 Vrms min @ 5 MHz.  
 Corona Level: 190 Vrms @ 70,000 ft.  
 R.F. Leakage: -80 dB max to 3.0 GHz.  
 -65 dB max to 18.0 GHz.  
 Contact Resistance:  
 Center Contact: 6.0 Milliohms.  
 Outer Contact: 2.0 Milliohms.

**MECHANICAL:**  
 Mating Characteristics:  
 Interface per Mil-Std-348.  
 Force To Engage:  
 Full Detent: 15 lbs max  
 Limited Detent: 10 lbs max  
 Smooth Bore: 2 lbs max  
 Force To Disengage:  
 Full Detent: 5 lbs min  
 Limited Detent: 2 lbs min  
 Smooth Bore: .5 lbs min  
 Center Contact Retention:  
 Axial Force: 2.0 pounds min.  
 Radial Torque: NA  
 Connector Durability:  
 Full Detent: 100 cycles min.  
 Limited Detent: 500 cycles min.  
 Smooth Bore: 1,000 cycles min.  
 Axial Misalignment: .000/.010 inch.

**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, except step 7b shall be omitted. insulation resistance shall be 200 MegOhms within 5 minutes after removal from humidity.  
 Corrosion:  
 Mil-Std-202, Method 101, Test Cond. B.  
 Vibration high frequency:  
 Mil-Std-202, Method 204, Test Cond. D.  
 Shock:  
 Mil-Std-202, Method 213, Test Cond. I.

**FINISH(ES):**  
 Body & Center Conductor:  
 Gold plate per ASTM B 488, Type II, Code C or D, Class 1.25, over nickel underplated per SAE-AMS-QQ-N-290, Class 1, over copper strike.

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

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

- MACHINE FINISH: 63/ RMS
- BREAK ALL SHARP EDGES .003 MAX.
- MACHINED FILLETS .005 MAX.
- MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
- MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
- DIMENSIONS TO BE MET BEFORE PLATING.
- CHAMFER ALL THREADS 45°.
- THREADS PER H-28.
- REMOVE FRAYED EDGES ON TEFLON.
- REMOVE ALL BURRS.

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MATERIAL		SIZE	SPECIFICATION	PROCUREMENT
APPROVAL INITIALS	DATE			
DRAWN BY	ATV	08.04.99		
CHECKED BY	P.MAO	12.13.10	TITLE SMP FEMALE TO SMP FEMALE STRAIGHT ADAPTER	
TEST ENGG			SCALE 10:1	SUB-DIRECTORY\FILENAME _OLPXXX\OLP617
QUALITY				SHEET 1 OF 1
DESIGN ENGG	P.MAO	12.13.10	SIZE C	CAGE CODE 30990 DRAWING NO. P617
MFG ENGG				REV. D