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

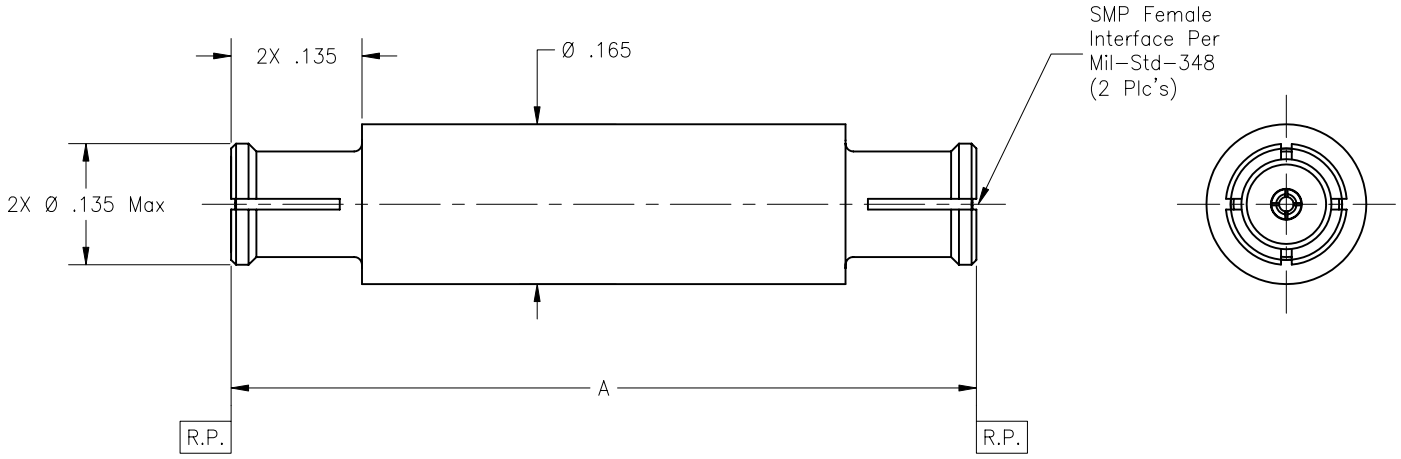

FIGURE 1

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 $\sqrt{f(GHz)}$.
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

NOTICE

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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	ATV	08.04.99
CHECKED BY	P.MAO	12.13.10
TEST ENGG		
QUALITY		
DESIGN ENGG	P.MAO	12.13.10
MFG ENGG		

CARLISLE Interconnect Technologies
Long Beach, CA 90815

TITLE: SMP FEMALE TO SMP FEMALE STRAIGHT ADAPTER

SCALE	SUB−DIRECTORY\FILENAME	SHEET
10:1	_OLPXXX\OLP617	1 OF 1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	P617	D

ENG−DWG REV. C