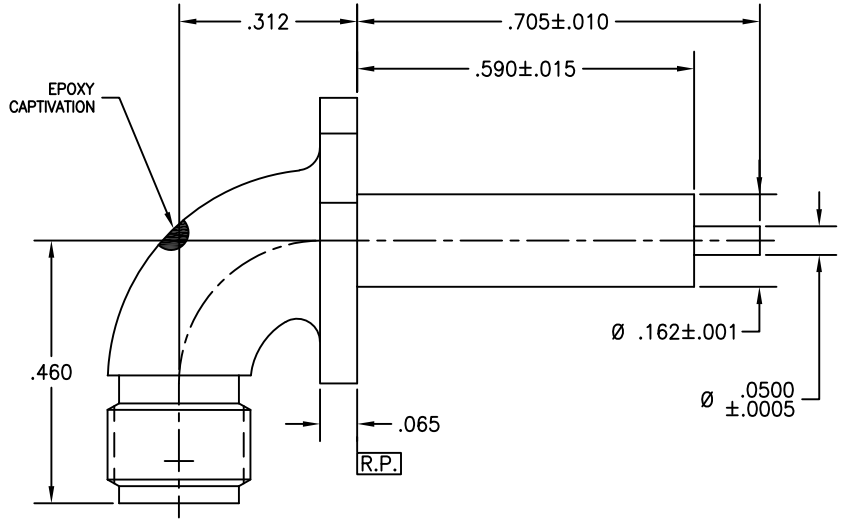
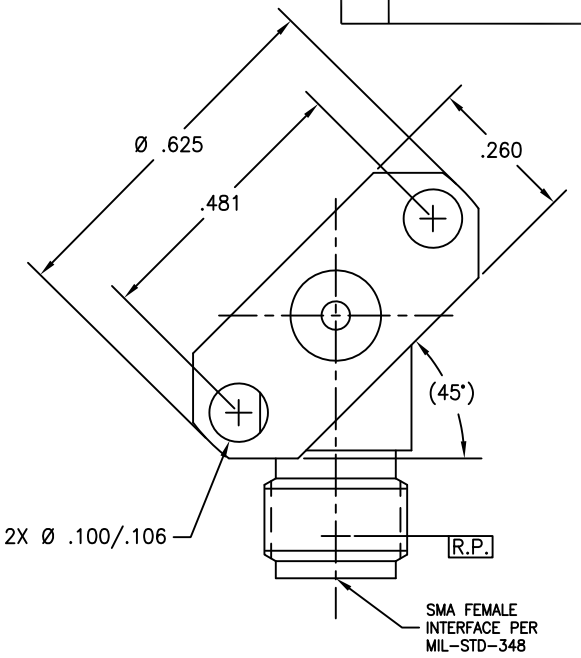
P/N	CAPTIVATION METHOD
5648	NONE
5648SF	NONE
5648CC	EPOXY
5648CCSF	EPOXY

REVISIONS			
REV	DESCRIPTION	DATE	BY
A	ECO 23546	09.02.10	DKN
B	ECO 202420 (ADD NEW NAME)	12.06.24	DKN





MATERIAL:

Body:
304L sst per AMS-5511.
Center Conductor:
BeCu alloy per ASTM B-196.
Dielectric:
PTFE per ASTM D-1710.
Epoxy: (for CC & CCSF)
Sigma VF Type HV.

ELECTRICAL:

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: 1.06 + .005 (fGHz).
Insertion Loss: .10 dB max to 6 GHz.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,000 Vrms min.
R.F. HiPot Voltage: 670 Vrms min @ 5MHz.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 MegOhms min.
R.F. Leakage: −(60 − fGHz) dB min. for CC
−(90 − fGHz) dB min. for Basic & SF
Contact Resistance:
Initial:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 4.0 Milliohm max.
Outer Contact: NA.

MECHANICAL:

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-pounds max.
Longitudinal Force: NA.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
* Center Contact Captivation:
Axial Force: 6 lbs min.
Radial Torque: 4 inch-ounce min.
Permeability: Less than 2.0 mu.

* Applicable to CC & CCSF

ENVIRONMENTAL:

Temp. Range: −65°C to +125°C (All Captivated)
−65°C to +165°C (Basic & SF)
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.

FINISH:

Body: (for SF & CCSF's)
Passivate per ASTM A-967.
Body: (for Basic & CC's)
Gold plate per ASTM B-488, Type II, Code C, Class 0.25;
Over nickel under plate per SAE AMS-QQ-N-290, Class 1.
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 CARLISLE IT DOCUMENTS

WORK STD	PROD INST	ASSY INST

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-2B
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

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MATERIAL	SPECIFICATION	PROCUREMENT

APPROVAL INITIALS		DATE
DRAWN BY	IMG	02.26.02
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	DNg	09.03.10
MFG ENGG		
ECO APPRV	DNg	12.06.24

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: SMA FEMALE RADIUS RIGHT ANGLE 2 HOLE FLANGE MOUNT (45° RIGHT) TO STRAIGHT TERMINATION

SCALE	DIRECTORY\SUB-DIRECTORY	SHEET	OF
8:1	_OUTLINE\	1	1

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	5648	B

ENG-DWG REV. E