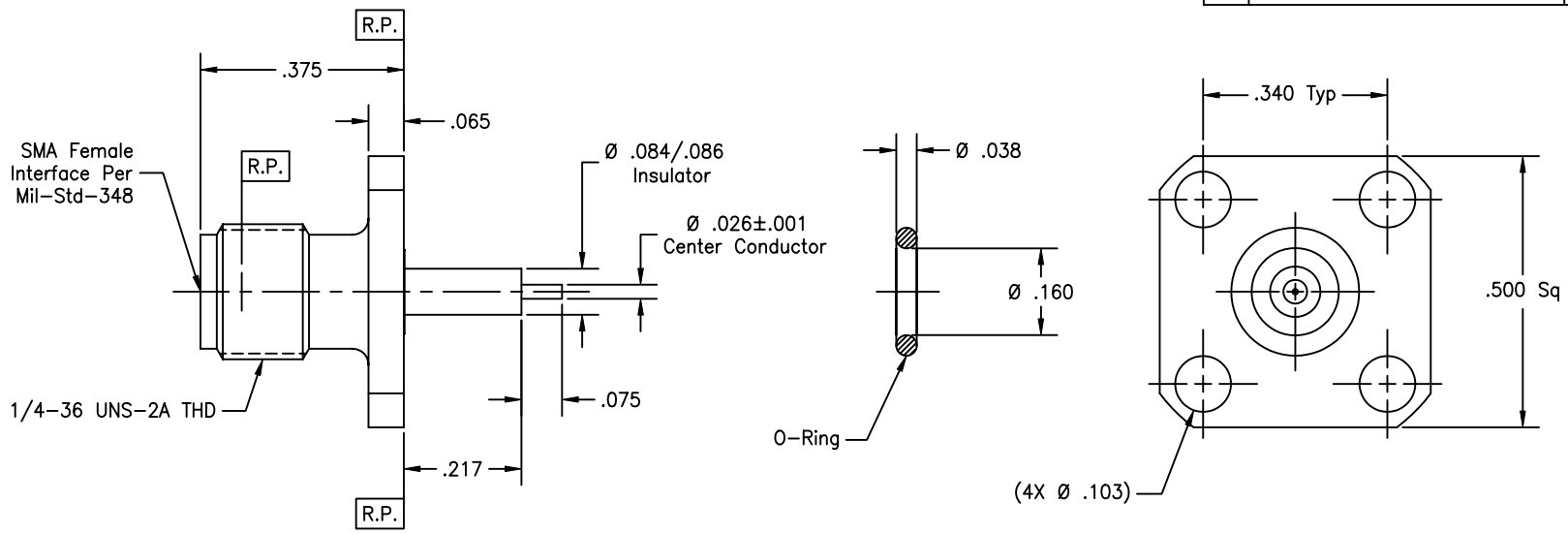
REVISIONS			
REV	DESCRIPTION	DATE	BY
P1	PRELIMINARY RELEASE	04.04.12	DKN
–	INITIAL RELEASE	05.24.12	DKN



Note(s):

1. Connector to be supplied with protective caps.

MATERIAL(S):

Body:
303 SST per ASTM A–582.
Center Conductor:
BeCu alloy per ASTM B–196.
Dielectric:
PTFE per ASTM D–1710.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 26.5 GHz.
VSWR: 1.06 + .005 x f(GHz).
Insertion Loss: .03 $\sqrt{f(GHz)}$.
Working Voltage: 250 Vrms max @ sea level.
Dielectric Withstanding Voltage: 750 Vrms min.
R.F. HiPot Voltage: 500 Vrms min @ 5MHz.
Corona Level: 190 Vrms @ 70,000 ft.
Insulation Resistance: 5000 MegOhms min.
R.F. Leakage: –(100 – fGHz) dB.
Contact Resistance:
Initial:
Center Contact: 6.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.

MECHANICAL(S):

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.
Permeability: Less than 2.0 mu.
Center Contact Captivation:
Axial Force: 6 pounds min.
Radial Torque: 4 inch–ounces min.

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):

Body:
Passivate per SAE–AMS 2700.
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
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.

MATERIAL			SPECIFICATION	PROCUREMENT
–			–	–

APPROVAL INITIALS		DATE
DRAWN BY	DKN	04.04.12
CHECKED BY		
TEST ENGG		
QUALITY		
DESIGN ENGG	HN	05.24.12
MFG ENGG		
ECO APPRV		

CARLISLE Interconnect Technologies
Cerritos, CA 90703

TITLE: SMA FEMALE 4 HOLE FLANGE MOUNT TO STRAIGHT TERMINATION

SCALE: 6:1 | DIRECTORY\SUB-DIRECTORY: OL_\ | SHEET 1 OF 1

SIZE: C | CAGE CODE: 30990 | DRAWING NO.: 5308–0–1CCSF | REV.: –

ENG–DWG REV. E