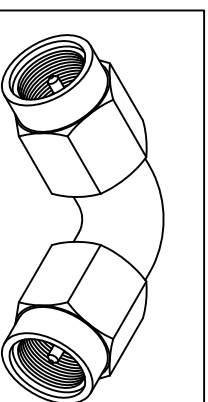
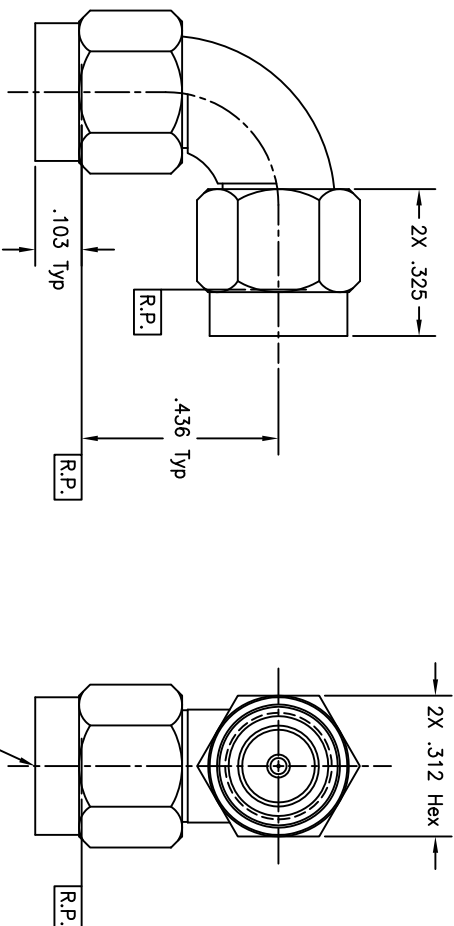


REVISIONS			
REV	DESCRIPTION	DATE	BY
-	Initial Released	04.24.13	DKN
A	ECO 27723 (MATCH W/TOP ASSY)	03.27.14	DKN



MATERIAL(S):

Body:
304 sst per MIL-T-8504 or
SAE-AMS-5567.
Coupling Nut:
303 sst per ASTM A-582.
Center Conductor:
BeCu alloy per ASTM B-196.
Retaining Ring:
BeCu alloy per ASTM B-197.
Dielectric:
PTFE per ASTM D-1710.
Gasket:
Silicone rubber per A-A-59588.

ELECTRICAL(S):

Impedance: 50 Ohms nominal.
Frequency Range: DC to 18.0 GHz.
VSWR: $1.05 + .005 \times f(\text{GHz})$.
Insertion Loss: .08 $\sqrt{f(\text{GHz})}$.
Working Voltage: 335 Vrms max @ sea level.
Dielectric Withstanding Voltage: 1,000 Vrms min.
R.F. HiPot Voltage: 670 Vrms @ 70,000 ft.
Corona Level: 250 Vrms @ 70,000 ft.
Insulation Resistance: 5,000 Megohms min.
R.F. Leakage: $-(90 - f\text{GHz})$ dB.
Contact Resistance:
Before Environment:
Center Contact: 3.0 Milliohm max.
Outer Contact: 2.0 Milliohm max.
After Environment:
Center Contact: 4.0 Milliohm max.
Outer Contact: NA.

MECHANICAL(S):

Mating Characteristics:
Interface per Mil-Std-348.
Force To Engage & Disengage:
Torque: 2 inch-pounds max.
Longitudinal Force: NA.
Center Contact Retention:
Captivity: NA.
Connector Durability:
500 cycles min @ 12 cycles/minute max.
Permeability: Less than 2.0 mu.
Coupling Mechanism Retention Force:
60 pounds minimum
Coupling Proof Torque:
15 inch-pounds minimum.

ENVIRONMENTAL(S):

Temperature Range: -65°C to $+165^{\circ}\text{C}$.
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(ES):

Body & Coupling Nut:
Gold plate per ASTM B-488, Type II, Code C, Class 0.25, over nickel
under plated per SAE-AMS-QQ-N-290, Class 1, .000015 inch thick min.
Center Conductor:
Gold plate per ASTM B-488, Type II, Code C or D, Class 1.25, over nickel
under plated per SAE-AMS-QQ-N-290, Class 1, .000050 inch thick min.

APPLICABLE CARLSLE IT DOCUMENTS

WORK STD	PROD INST	ASSY INST
NA	NA	NA

NOTICE

THE DRAWING IS THE PROPERTY OF CARLSLE. IT IS TO BE USED FOR THE PRODUCTION OF THE PARTS AND ASSEMBLIES ONLY. IT IS NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CARLSLE. THE USER OF THIS DRAWING AGREES TO HOLD CARLSLE HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DRAWING. THE USER OF THIS DRAWING AGREES TO HOLD CARLSLE HARMLESS FROM ANY AND ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DRAWING.

TOLERANCES AND NOTES EXCEPT AS NOTED

- DIMENSIONS ARE IN INCHES
UNLESS NOTED OTHERWISE
1. MACHINE FINISH: $63 \mu\text{M}$
 2. BREAK ALL SHARP EDGES .003 MAX.
 3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE TO BE HUNT BEFORE PLATING.
 4. DIMENSIONS TO BE HUNT BEFORE PLATING.
 5. DIMENSIONS TO BE HUNT BEFORE PLATING.
 6. DIMENSIONS TO BE HUNT BEFORE PLATING.
 7. DIMENSIONS TO BE HUNT BEFORE PLATING.
 8. DIMENSIONS TO BE HUNT BEFORE PLATING.
 9. DIMENSIONS TO BE HUNT BEFORE PLATING.
 10. DIMENSIONS TO BE HUNT BEFORE PLATING.

APPROVAL

APPROVAL	DATE	DESCRIPTION	PROCUREMENT
DRAWN BY DKN	04.19.13		
CHECKED BY P.M.M.O.	04.24.13		
TEST DATED			
DESIGN ENGINEER P.M.M.O.	04.24.13		
WFO ENGINEER			
ECO APPROV			

CARLSLE Interconnect Technologies
Cerritos, CA 90703

SMA MALE TO SMA MALE
SWEEP RIGHT ANGLE ADAPTER

SIZE 5.1
OUTLINE VOL. 1
SHEET 1 OF 1
REV A

309990 5065-0-1

ENG-DWG REV. E 4 3 2 1