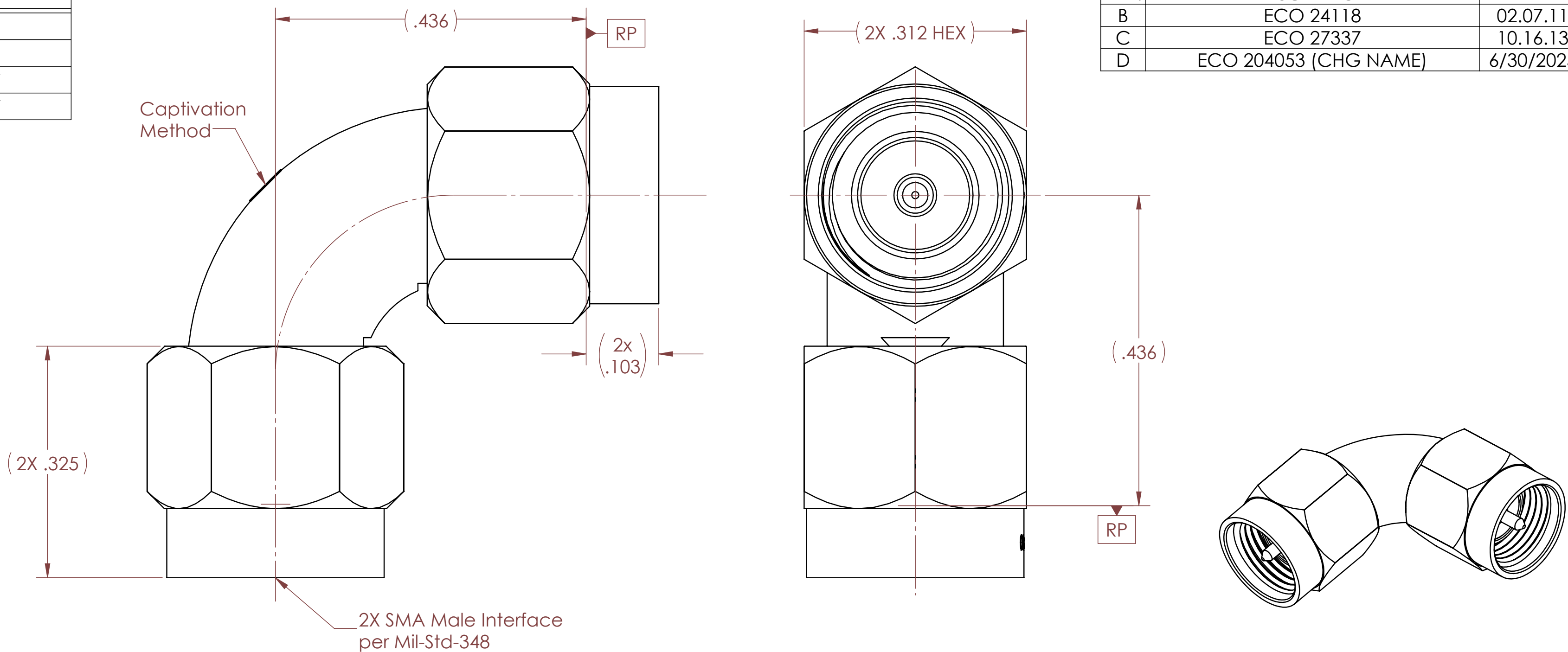


PART NO.	CAPTIVATION METHOD
BASIC	NONE
SF	NONE
CC	EPOXY ONLY
CCSF	EPOXY ONLY

REVISIONS			
REV.	DESCRIPTION	DATE	BY
B	ECO 24118	02.07.11	ABN
C	ECO 27337	10.16.13	DKN
D	ECO 204053 (CHG NAME)	6/30/2025	DKN



MATERIAL(S):	ELECTRICAL(S):	MECHANICAL(S):	ENVIRONMENTAL(S):
Body: 304 SST per SAE-AMS-5567 Coupling Nut: 303 SST per ASTM A582 Center Conductor: BeCu Alloy per ASTM B196 Retaining Ring: BeCu Alloy per ASTM B197 Dielectric: PTFE Teflon per ASTM D1710 Gasket: Silicone rubber per A-A-59588 Epoxy: (CC's version) Sigma VF type HV	Impedance: 50 Ohms Nominal Frequency Range: DC to 18.0 GHz VSWR: 1.25: max @ 18GHz Insertion Loss: .20 dB max @ 18GHz Working Voltage: 335 Vrms max @ Sea Level Dielectric Withstand Voltage: 1,000 Vrms min. RF HiPot Voltage: 670 Vrms min. @ 5MHz Corona Level: 250 Vrms @ 70,000 ft Insulation Resistance: 5,000 MegOhms min. RF Leakage: -(65 - fGHz) dB (For CC & CCSF). RF Leakage: -(90 - fGHz) dB (For BASIC & SF). Contact Resistance: Before Environment: Center Contact: 3.0 Milliohms max Outer Contact: 2.0 Milliohms max After Environment: Center Contact: 4.0 Milliohms max Outer Contact: NA	Mating Characteristics: Interface per MIL-STD-348 Force to Engage & Disengage: Torque: 2 inch-lbs max Longitudinal Force: NA Connector Durability: 500 Cycles min. @ 12 cycles/minute max Permeability: Less than 2.0 mu. Center Contact Retention: ** Axial Force: 6 lbs min. Coupling Mechanism Retention Force: 60 pounds min. Coupling Proof Torque: 15 inch-pounds min. 7 - 10 in-pounds where test is performed on mated pairs ** Not applicable to P/N 5065 and 5065SF	Temperature Range: For BASIC & SF: -65°C to +165°C For CC & CCSF: -65°C to +125°C Thermal Shock: MIL-STD-202, Method 107, Test Condition 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 Condition B Vibration: MIL-STD-202, Method 204, Test Condition D Shock: MIL-STD-202, Method 213, Test Condition I

FINISH(ES):	APPLICABLE Amphenol CDI DOCUMENTS	TOLERANCES AND NOTES	MATERIAL	SPECIFICATION	PROCUREMENT																																								
Body & Coupling Nut: For SF & CCSF: Passivate per ASTM A967 or SAE AMS 2700. For BASIC & CCSF: Gold plate per ASTM B488, Type II, Code C, Class .25, over Nickel plate per SAE AMS-QQ-N-290, Class 1. Center Conductor: Gold plate per ASTM B488, Type II, Code C, Class 1.25, over Nickel plate per SAE AMS-QQ-N-290, Class 1.	<table border="1"> <thead> <tr> <th>WORK STANDARD</th> <th>PROD INSTRUC</th> <th>ASSY INSTRUC</th> </tr> </thead> <tbody> <tr> <td>NA</td> <td>NA</td> <td>NA</td> </tr> </tbody> </table>	WORK STANDARD	PROD INSTRUC	ASSY INSTRUC	NA	NA	NA	EXCEPT AS NOTED DIMENSIONS ARE IN INCHES. .XX ±.015 ANGULAR ± 1/2° LINEAR .XXX ±.005 FRACTION ± 1/32 INTERPRET DRAWING PER ASME Y14.5 - 2018 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 AFTER PLATING. 7. CHAMFER ALL THREADS 45°. 8. THREADS PER H-28 9. REMOVE FRAYED EDGES ON TEFLON. 10. REMOVE ALL BURRS.	<table border="1"> <thead> <tr> <th>APPROVAL</th> <th>INITIALS</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN BY</td> <td>ATV</td> <td>02.03.02</td> </tr> <tr> <td>CHECKED BY</td> <td>-</td> <td>-</td> </tr> <tr> <td>TEST ENGR</td> <td>-</td> <td>-</td> </tr> <tr> <td>QUALITY</td> <td>-</td> <td>-</td> </tr> <tr> <td>DESIGN ENG</td> <td>HN</td> <td>02.15.11</td> </tr> <tr> <td>MFG. ENGR</td> <td>-</td> <td>-</td> </tr> <tr> <td>ECO APPRV</td> <td>DNg</td> <td>07.09.25</td> </tr> </tbody> </table>	APPROVAL	INITIALS	DATE	DRAWN BY	ATV	02.03.02	CHECKED BY	-	-	TEST ENGR	-	-	QUALITY	-	-	DESIGN ENG	HN	02.15.11	MFG. ENGR	-	-	ECO APPRV	DNg	07.09.25	<table border="1"> <thead> <tr> <th>SCALE</th> <th>SUB-DIRECTORY/</th> <th>SHEET</th> <th>OF</th> <th>REV.</th> </tr> </thead> <tbody> <tr> <td>8:1</td> <td>_OUTLINE\</td> <td>1</td> <td>1</td> <td>D</td> </tr> </tbody> </table>	SCALE	SUB-DIRECTORY/	SHEET	OF	REV.	8:1	_OUTLINE\	1	1	D	12900 Alondra Blvd. Cerritos, CA 90703 Amphenol CDI TITLE: SMA MALE TO SMA MALE RADIUS R/A, ADAPTER DRAWING NO.: OL_5065
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