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P/N	APPLICABLE NOTE(S)	A
5309-1CC	1	.057
5309-1CCSF	1	.057
5309-2CC	1	.125
5309-2CCSF	1	.125

R.P.

A

.375

R.P.

.049

$\phi .010 \pm .001$

$\phi .085 \pm .001$

EPOXY CAPIVATION

.065

SMA FEMALE INTERFACE PER MIL-STD-348

.223 $\pm$.003

($\phi .625$)

.481 $\pm$.002

$\phi .102$

NOTE(S):

1. OUTLINE DRAWING REVISION IS INDEPENDENT OF PRODUCTION REVISION.

MATERIAL(S):	ELECTRICAL(S):	MECHANICAL(S):	ENVIROMENTAL(S):
Body: 303 sst per ASTM A-582. Center Conductor: BeCu alloy per ASTM B-196. Dielectric: PTE per ASTM D-1710. Epoxy: Sigma VF Type HV	Impedance: 50 Ohms nominal. Freqancy Range: DC to 18 GHz. VSWR: 1.05 + .007 x f(GHz) Insertion Loss: .04 x SQRT(f)(GHz) dB max. Working Voltage: 335 Vrms max@ sea level. DWV: 1,000 Vrms at sea level. Test at 60 Hz. R.F. HiPot Voltage: 670 Vrms @ 7.5 MHz. Corona Level: 250 Vrms @ 70,000 ft. Insulation Resistance: 5,000 MegOhms min. Contact Resistance: Center Contact: 4.0 Milliohm max. Outer Contact: 2.0 Milliohm max.	Mating Characteristics: Interface per Mil-Std-348. Connector Durability: 500cycles 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.	Temperature Range: -55°C to + 125°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):

1. Body (For CCSF's):
Passivate per ASTM A-967.

Body (For CC's): Gold plate per ASTM B-488, Type II, Code C, Class .25; Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.

2. Center Conductor: Gold plate per ASTM B-488, Type II, Code C or D, Class 1.25; Over nickel under plate per SAE-AMS-QQ-N-290, Class 1.

APPLICABLE Amphenol CDI DOCUMENTS		
WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA

TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX $\pm$.015 / .XXX $\pm$.005
FRACTION $\pm$ 1/32 ANGULAR $\pm$ 1/2°

1. INTERPRET DRAWING PER ASME Y14.5 - 2018
MACHINE FINISH: 63 RMS
2. BREAK ALL SHARP EDGES .003 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACES SQUARE TO RESPECT-
IVE 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.

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MATERIAL		SPECIFICATION		PROCUREMENT	
APPROVAL	INITIALS	DATE			
DRAWN BY	ATV	10.24.01			
SEE ECO FOR APPROVAL SIGNATURES					

Amphenol  12900 Alondra Blvd.
Cerritos, CA 90703

TITLE
SMA FEMALE 2 HOLE FLANGE MOUNT MICROSTRIP
TRANSMISSION LINE TERMINATION

SCALE
8:1

SIZE
C

CAGE CODE
30990

DRAWING NO.
5309

SHEET 1 OF 1

REV.
C

ENG-SW REV. L

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