MODEL No.:

79Y57613

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SPECIFICATIONS

1.0 ENGINEERING DATA

Nominal Impedance	50 Ohms
Frequency	DC to 40 GHz
Voltage Rating	400 Volts RMS @ sea level
	80 Volts RMS @ 70,000 ft.
Temperature Range	-55° to +165°C

2.0 MECHANICAL

2.1 Material and Finish

Outer conductor Housing	Steel, CRES Alloy UNS-S30300 per ASTM A582. Gold Plate per MIL-DTL-45204
Center Conductor	Beryllium Copper UNS-C17300 per ASTM B196 Gold Plate per MIL-DTL-45204
Dielectric	Virgin PTFE Fluorocarbon per ASTM D1710 Type 1, Grade 1, Class B and ASTM D1457 or ASTM D4894
Capture Bead	Ultem 1000 per ASTM D5205

2.2 Configuration and features

Center Contact Retention	6 lbs (27 N) Axial Minimum

2.3 Socket Requirements

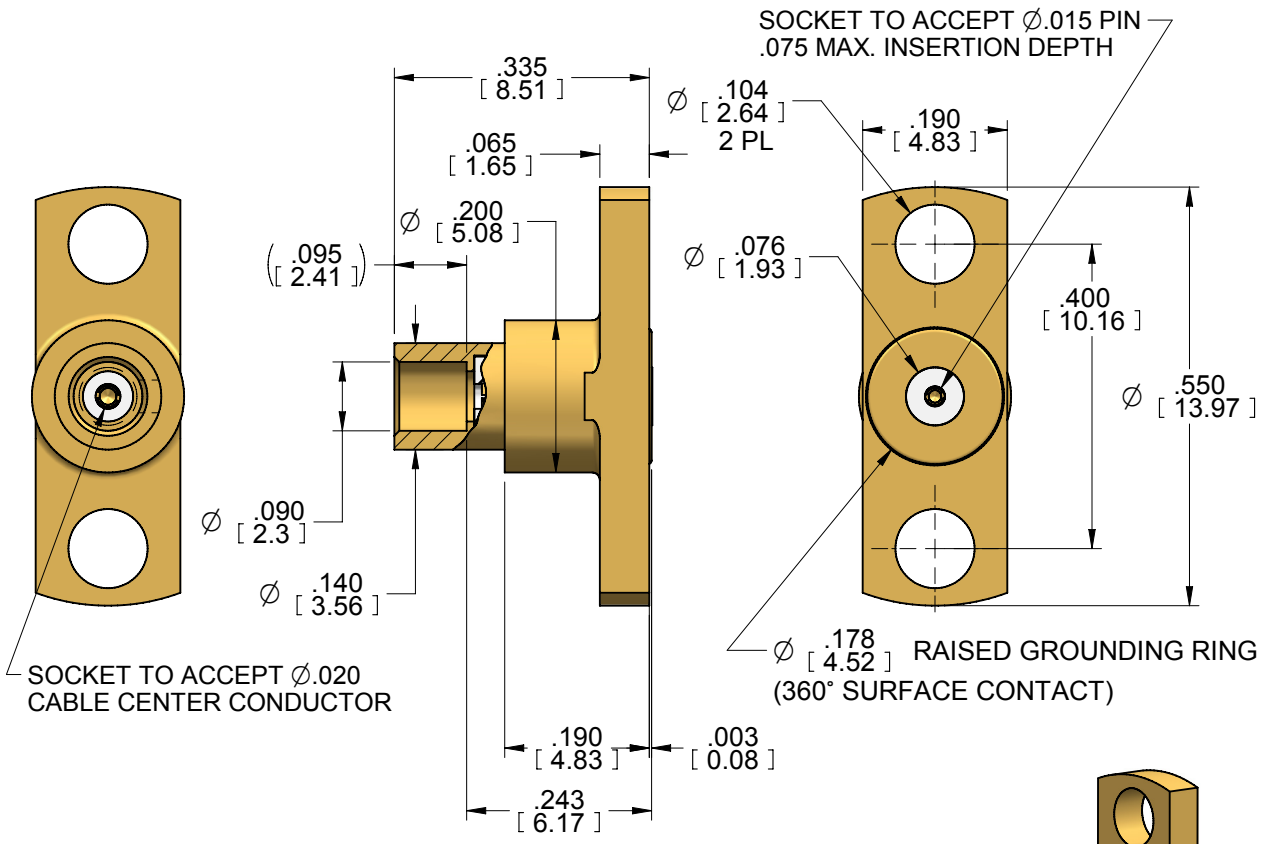
Insertion Force (Cable Socket)	2.0 lb Maximum
Withdrawal Force(Cable Socket	1.0 oz Minimum
Insertion Force (Launch Socket)	2.0 lb Maximum
Withdrawal Force(Launch Socket	0.5 oz Minimum

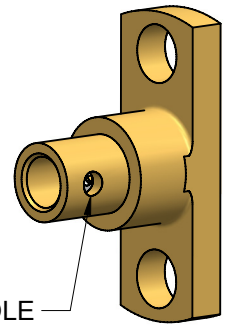
3.0 ELECTRICAL

Insulation Resistance	Not less than 5000 megohms
Dielectric Withstanding voltage	400 Volts RMS
Contact Resistance	3.0 milliohms (initial)
	4.0 milliohms (after environment)
	2.0 milliohms (outer conductor)
Voltage Standing Wave Ratio (tested on cable assembly)	DC to 40 GHz ..... 1.4:1 Max vswr
RF Leakage	$-(120 - fGHz)$ dB Maximum
Insertion Loss	$0.035\sqrt{f(GHz)}$ dB Maximum

4.0 ENVIRONMENTAL

Vibration	Per MIL-STD-202, Method 204, Test Condition D (20g peak)
Shock	Per MIL-STD-202, Method 213, Test Condition I (100g peak)
Thermal Shock	Per MIL-STD-202, Method 107, Test Condition F (-65° C to +150° C)
Corrosion (Salt Spray)	Per MIL-STD-202, Method 101, Test Condition B (48 hours) (5% salt solution)
Moisture Resistance	Per MIL-STD-202, Method 106, Omit 7B (vibration), Insulation Resistance shall be 500 megohms
Corona Level	80 Volts RMS @ 70,000 ft.





2. FOR CABLE PREPORATION AND TERMINATION INSTRUCTIONS REFER TO SMI DOCUMENT # 91S59916.

1. ALL DIMENSIONS ARE IN INCHES. ALL ANGLES ARE IN DEGREES. DIMENSIONS SHOWN IN BRACKETS [XXX] ARE IN MILLIMETERS.

NOTES: UNLESS OTHERWISE SPECIFIED.

REV	ECN	DATE:	APRVD.	DATE:
C2	8957	3/2/11	B.ROSAS	5/11/11

SOUTHWEST MICROWAVE

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TITLE

DIRECT SOLDER FLANGE MOUNT CONNECTOR
FOR .086 SEMI-RIGID CABLE APPLICATION TO ∅.015 LAUNCH
2 HOLE .550 LONG X .190 WIDE FLANGE

DRN BY: EJO	DATE: 12/16/08	MODEL NO. 108-13G	REV. C2
SCALE: 3:1			
SHEET: 1 OF 1		DWG. NO. 79Y57613	

MPD—A—O.L. 3x