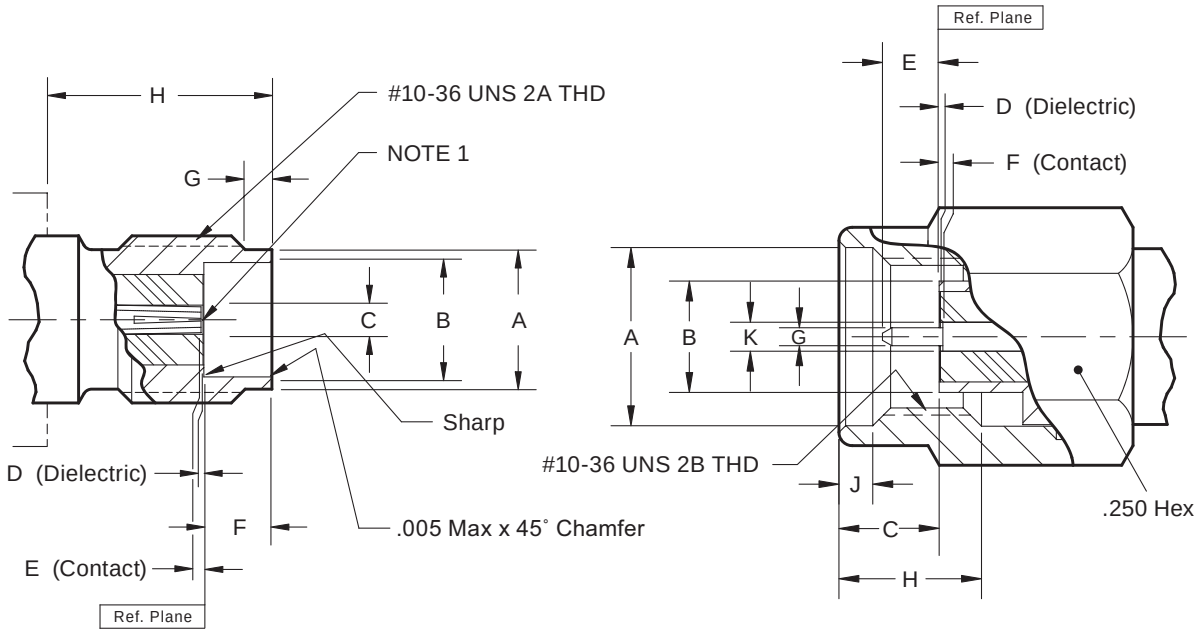
Index

Adapters: *SSMA Series Adapters can be found in the Adapter section.*
Cable Connectors: *SSMA Series Connectors can be found in the Cable Connector section.*
Unless otherwise specified, all dimensions are in inches.

SSMA

Interface Standards



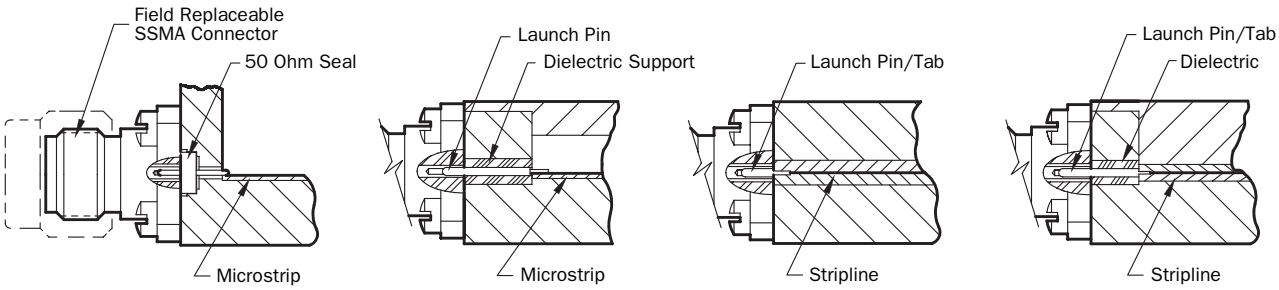
SSMA Jack (Socket Contact)				
LTR	Inches (Millimeters)			
	Minimum		Maximum	
A	.148	(3.76)	.155	(3.94)
B	.1272	(3.23)	.130	(3.30)
C	.0335	(0.85)	.0348	(0.88)
D	.000	(0.00)	.005	(0.13)
E	.000	(0.00)	.005	(0.13)
F	.075	(1.91)	.077	(1.96)
G	.020	(0.51)	.040	(1.02)
H	.218	(5.54)	——	——
	Inch	(mm)	Inch	(mm)

SSMA Plug (Pin Contact)				
LTR	Inches (Millimeters)			
	Minimum		Maximum	
A	.196	(4.98)	.202	(5.13)
B	.124	(3.23)	.126	(3.20)
C	.105	(2.67)	.125	(3.17)
D	.000	(0.00)	.005	(0.13)
E	.055	(1.40)	.065	(1.65)
F	.000	(0.00)	.005	(0.13)
G	.0195	(0.495)	.0208	(0.528)
H	.150	(3.81)	.170	(4.32)
J	.035	(0.89)	.040	(1.02)
K	.0335	(0.851)	.0348	(0.884)
	Inch	(mm)	Inch	(mm)

Note: Interface I.A.W. MIL-PRF-39012 and MIL-STD-348, Figures 319-1 and 319-2.

Specifications

Applications



Available Accessories:

See Launch Accessories Section.

- 50 Ohm Seal
- Launch Pin & Dielectric
- Launch Pin/Tab
- Launch Pin/Tab & Dielectric

Electrical:

- Mode Free Through 36.0 GHz
- Low VSWR: DC to 18.0 GHz.....1.10:1 max
  18.0 to 27.0 GHz.....1.15:1 max
  27.0 to 36.0 GHz.....1.25:1 max
- Low RF Leakage ≤ -100 dB
- Low Insertion Loss

Materials / Construction:

- Housing: Steel, CRES Alloy UNS S30300 Per ASTM A582, Passivated Per ASTM A967
- Contact: Beryllium Copper (BeCu), UNS C17300 Per ASTM B196, Gold Plated Per MIL-G-45204 or ASTM B488
- Dielectric: Virgin PTFE Fluorocarbon Per ASTM D1710
- Center Contact Capture: High Temperature Ultem 1000 Per ASTM D5205
- Connector Interface: Per MIL-STD-348, Figs. 319-1 and 319-2
- Raised Metal Grounding Ring for 360° Metal-to-metal Contact

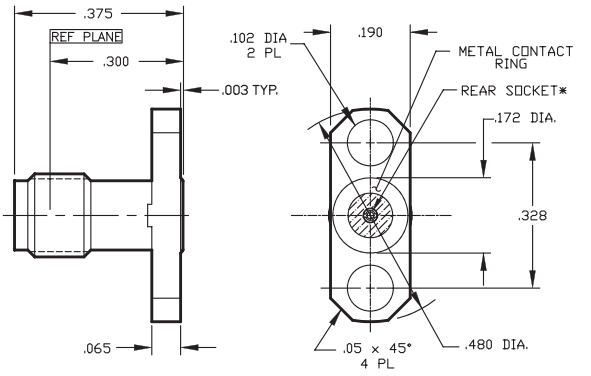
Environmental:

- Temperature: -55° C to +165° C

SOUTHWEST MICROWAVE

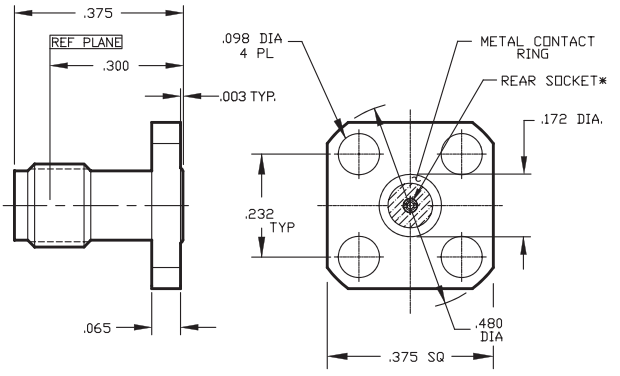
SSMA Series DC to 36.0 GHz

SSMA JACK (FEMALE) 2 HOLE .480" Long



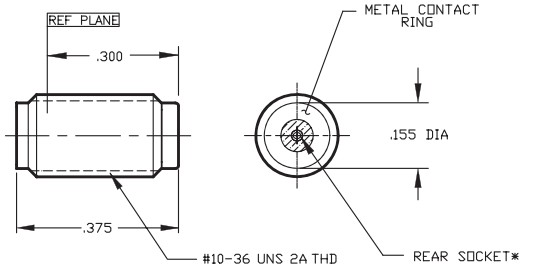
*ACCEPTS PIN DIA.	Connector No.
.020	114-20SF
.018	114-17SF
.015	114-16SF
.012	114-18SF
.009	114-19SF

SSMA JACK (FEMALE) 4 HOLE .375" SQUARE



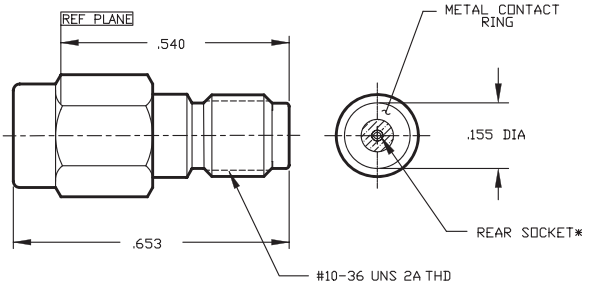
*ACCEPTS PIN DIA.	Connector No.
.020	112-20SF
.018	112-17SF
.015	112-16SF
.012	112-18SF
.009	112-19SF

SSMA JACK (FEMALE) THREAD-IN



*ACCEPTS PIN DIA.	Connector No.
.020	120-04SF
.018	120-03SF
.015	120-02SF
.012	120-01SF
.009	120-05SF

SSMA PLUG (MALE) THREAD-IN



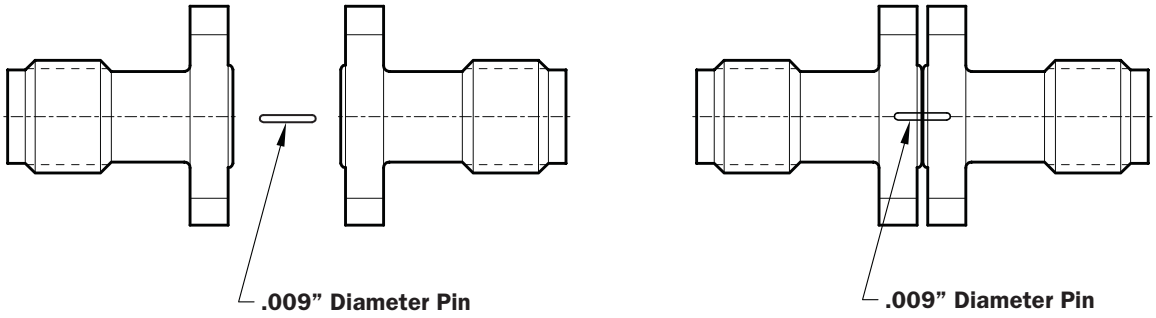
*ACCEPTS PIN DIA.	Connector No.
.020	121-02SF
.018	–
.015	–
.012	121-01SF
.009	–

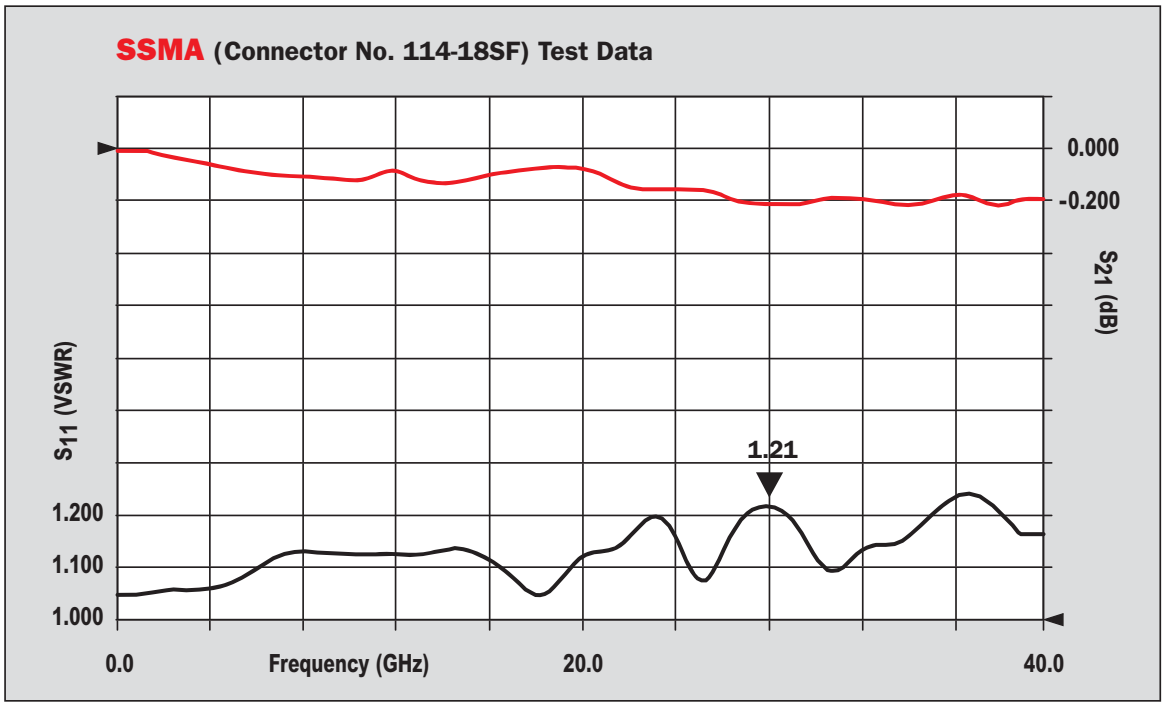
Typical Test Data

Back-to-Back Connector Testing

Back-to-back testing shows data for two connectors. Any internal mismatches within the connector will phase together when tested through 40.0 GHz. Taking the square root of the peak VSWR will provide the value for a single connector.

Connector No. 114-18SF with .009" **Test Pin**





1.21 is the maximum VSWR for the pair of connectors and two test adapters (Adapter No. 11430-00SF)