



Index

2.40 mm Connectors (50 GHz)	Page
Interface Standards	44
Specifications	45
Connector Numbers	46
Typical Test Data	48

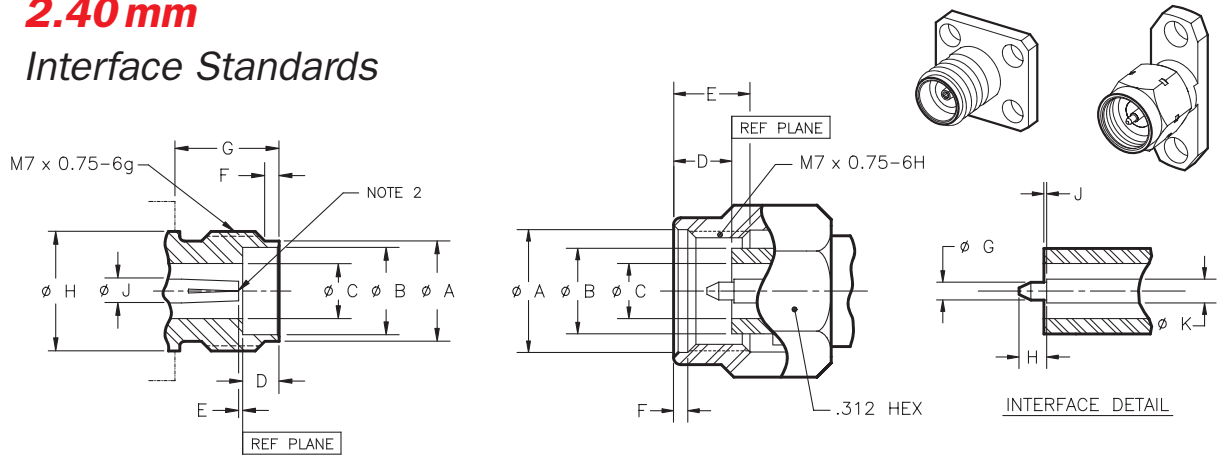
Adapters: 2.40 mm Adapters can be found in the Adapter section.

Cable Connectors: 2.40 mm Connectors can be found in the Cable Connector section.

End Launch Connectors: 2.40 mm End Launch Connectors can be found in the End Launch section.

Unless otherwise specified, all dimensions are in inches.

2.40 mm Interface Standards



2.40 mm Jack (Socket Contact)

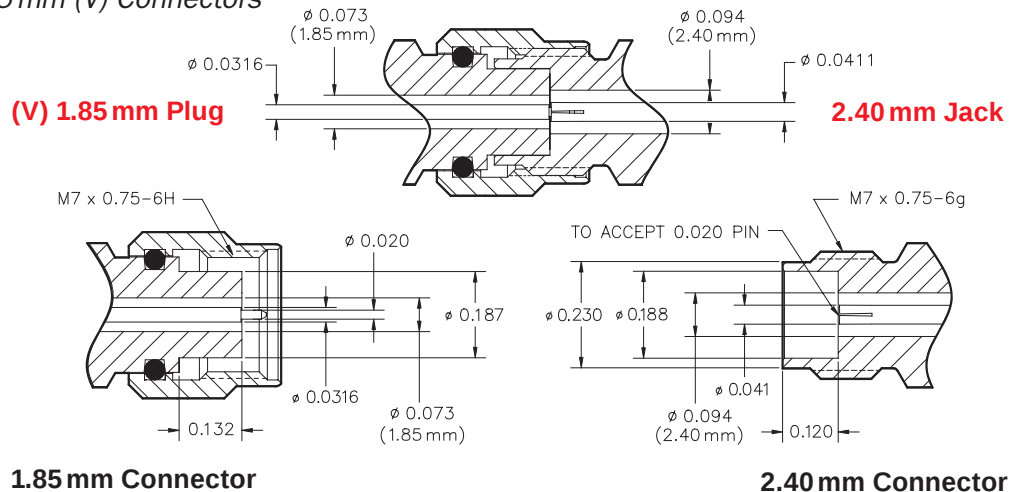
LTR	Inches (Millimeters)			
	Minimum		Maximum	
A	.228	(5.79)	.232	(5.89)
B	.1878	(4.770)	.1888	(4.795)
C	.094	(2.388)	.095	(2.413)
D	.118	(3.00)	.122	(3.10)
E	.000	(0.00)	.005	(0.127)
F	.055	(1.40)	.065	(1.65)
G	.236	(5.99)	—	—
H	—	—	.270	(6.86)
J	.0406	(1.031)	.0414	(1.052)
	Inch	(mm)	Inch	(mm)

2.40 mm Plug (Pin Contact)

LTR	Inches (Millimeters)			
	Minimum		Maximum	
A	.276	(7.01)	.280	(7.12)
B	.186	(4.725)	.187	(4.75)
C	.094	(2.388)	.095	(2.413)
D	.073	(1.85)	.096	(2.45)
E	.172	(4.370)	.182	(4.623)
F	.020	(0.51)	.030	(0.76)
G	.0196	(0.498)	.0206	(0.523)
H	.050	(1.27)	.060	(1.524)
J	.000	(0.00)	.005	(0.127)
K	.0406	(1.03)	.0414	(1.052)
	Inch	(mm)	Inch	(mm)

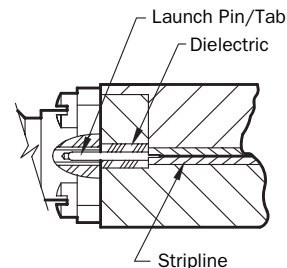
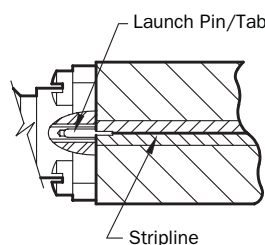
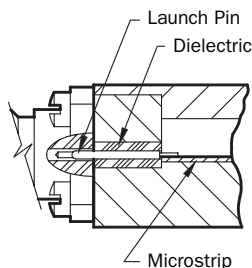
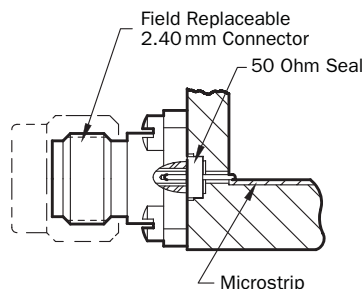
Notes: 1. Interface I.A.W. MIL-PRF-39012 and MIL-STD-348, Figures 324-1 and 324-2.
2. I.D. to meet VSWR when mated with .0196 / .0206 (0.498 mm / 0.523 mm) Diameter Pin.

Interface Compatability with 1.85 mm (V) Connectors



Specifications

Applications



Available Accessories:

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

See Launch Accessories Section.

Electrical:

- Mode Free Through 50.0 GHz
- Low VSWR: DC to 18.0 GHz.....1.10:1 max
18.0 to 40.0 GHz.....1.15:1 max
40.0 to 50.0 GHz.....1.18:1 max
- Low RF Leakage $\leq$ -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
- Center Contact Capture: Rigid Two Bead Capture with Ultem 1000 Per ASTM D5205 and KEL-F Per ASTM D1430
- Connector Interface: Per MIL-STD-348, Figs. 324-1 and 324-2
- Raised Metal Grounding Ring for 360° Metal-to-metal Contact

Environmental:

- Temperature: -55° C to +135° C



2.40 mm Series DC to 50.0 GHz

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2.40 mm JACK (FEMALE) 4 HOLE .500" SQUARE		*ACCEPTS PIN DIA.	Connector No.	
		.020	1412-02SF	
		.012	1412-01SF	
		.009	1412-05SF	
2.40 mm JACK (FEMALE) 4 HOLE .375" SQUARE		*ACCEPTS PIN DIA.	Connector No.	
		.020	1412-04SF	
		.012	1412-03SF	
		.009	1412-06SF	
2.40 mm JACK (FEMALE) 2 HOLE .625 LONG		*ACCEPTS PIN DIA.	Connector No.	
		.020	1414-02SF	
		.012	1414-01SF	
		.009	1414-05SF	
2.40 mm JACK (FEMALE) 2 HOLE .550 LONG		*ACCEPTS PIN DIA.	Connector No.	
		.020	1414-08SF	
		.012	1414-07SF	
		.009	1414-09SF	
2.40 mm JACK (FEMALE) 2 HOLE .500 LONG		*ACCEPTS PIN DIA.	Connector No.	
		.020	1414-04SF	
		.012	1414-03SF	
		.009	1414-06SF	
2.40 mm JACK (FEMALE) THREAD-IN		*ACCEPTS PIN DIA.	Δ .250-36 UNS 2A REAR THREAD	Δ M6 x.75-6g REAR THREAD
		.020	1420-02SF	--
		.012	1420-01SF	--
		.009	1420-03SF	1420-04SF



2.40 mm Series DC to 500 GHz

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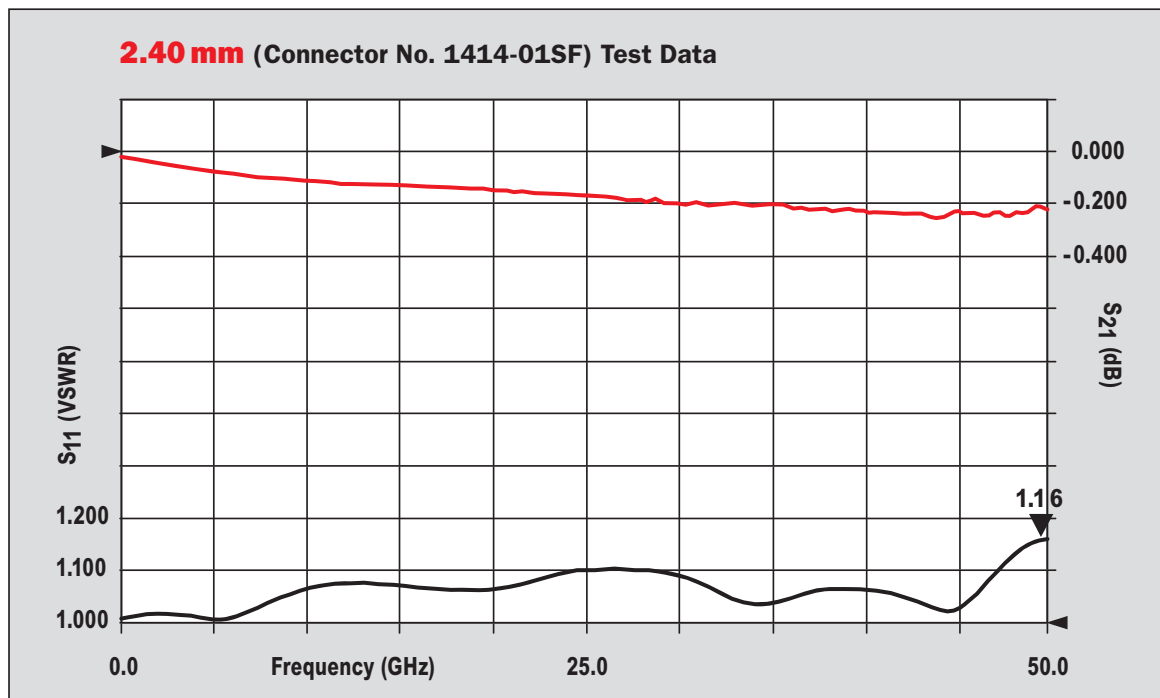
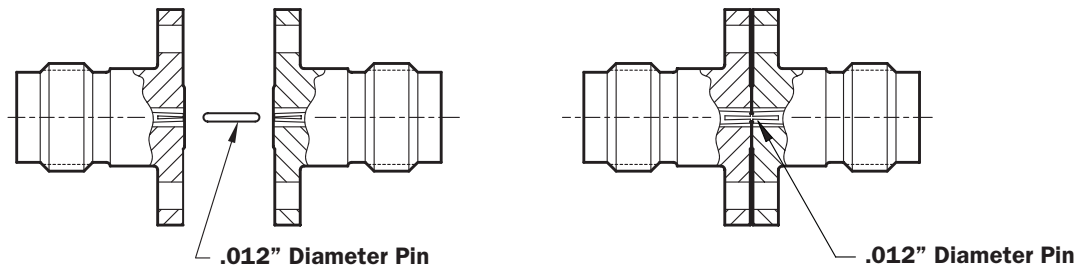
2.40 mm PLUG (MALE) 4 HOLE .500" SQUARE		*ACCEPTS PIN DIA.	Connector No.
		.020	1411-02SF
		.012	1411-01SF
		.009	1411-05SF
2.40 mm PLUG (MALE) 4 HOLE .375" SQUARE		*ACCEPTS PIN DIA.	Connector No.
		.020	1411-04SF
		.012	1411-03SF
		.009	1411-06SF
2.40 mm PLUG (MALE) 2 HOLE .625 LONG		*ACCEPTS PIN DIA.	Connector No.
		.020	1413-02SF
		.012	1413-01SF
		.009	1413-05SF
2.40 mm PLUG (MALE) 2 HOLE .550 LONG		*ACCEPTS PIN DIA.	Connector No.
		.020	1413-08SF
		.012	1413-07SF
		.009	1413-09SF
2.40 mm PLUG (MALE) 2 HOLE .500 LONG		*ACCEPTS PIN DIA.	Connector No.
		.020	1413-04SF
		.012	1413-03SF
		.009	1413-06SF
2.40 mm PLUG (MALE) THREAD-IN		*ACCEPTS PIN DIA.	△ .250-36 UNS 2A REAR THREAD △ M6 x.75-6g REAR THREAD
		.020	1421-02SF
		.012	1421-01SF
		.009	1421-03SF 1421-04SF

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 50.0 GHz. Taking the square root of the peak VSWR will provide the value for a single connector.

Connector No. 1414-01SF with .012" **Test Pin**



$$\sqrt{1.16} = 1.07 \text{ Maximum for each connector}$$

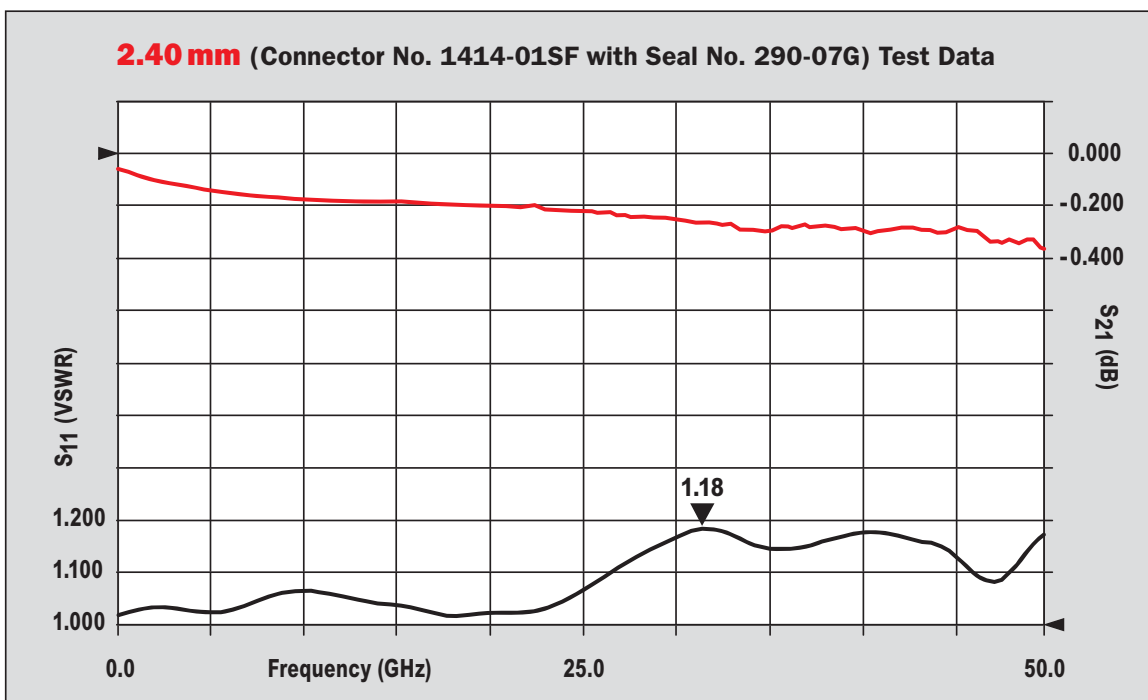
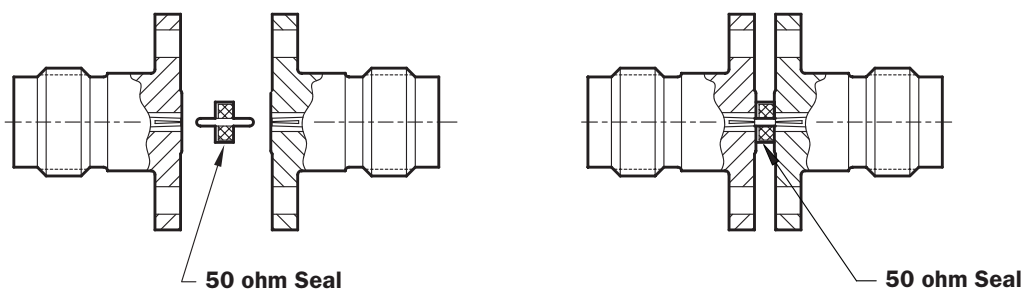
Typical Test Data

Back-to-Back Connector Testing

Back-to-back testing shows data for two connectors and 50 ohm seal.

Connector No. 1414-01SF with .012" Pin

50 ohm Seal (Seal No. 290-07G)



$$\sqrt{1.18} = 1.08 \text{ Maximum for each connector}$$