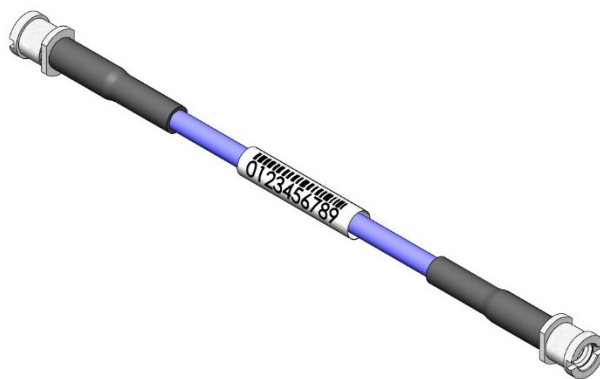




RF Characterization Report

RF086-00BX-00BX-XXXX



Test Date: Oct 2023

Description:
50 Ohm .086" RF Millimeter Wave Cable Assembly,
SMP Bulkhead Plug End Option

Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug Ends

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Series: RF086

Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug Ends

Test Setup Information

Scope:

Provide standing wave ratio, return loss and insertion loss performance parameters for RF086 cable assembly with SMP Bulkhead Plug end options.

Instrument Setup & Test Accessories:

Network Analyzer	Keysight PNA N5227B
Averaging Factor	1
Smoothing	Off
IF Bandwidth	1 KHz
Sweep Start	10 MHz
Sweep End	40 GHz
Points	4000
Test Cables	Gore 0F0CACB036.0-LF (DC to 67 GHz)

Calibration Type:

A Keysight mechanical calibration is performed using the Keysight 85056A 2.4mm Mechanical Calibration kit.

Calibration Kit	Keysight 85056A Mechanical Calibration Kit
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Adapter Use:

MADP-6135 adapter was used for the measurements. The adapter effects were removed from the measurement using Keysight AFR in PLTS.

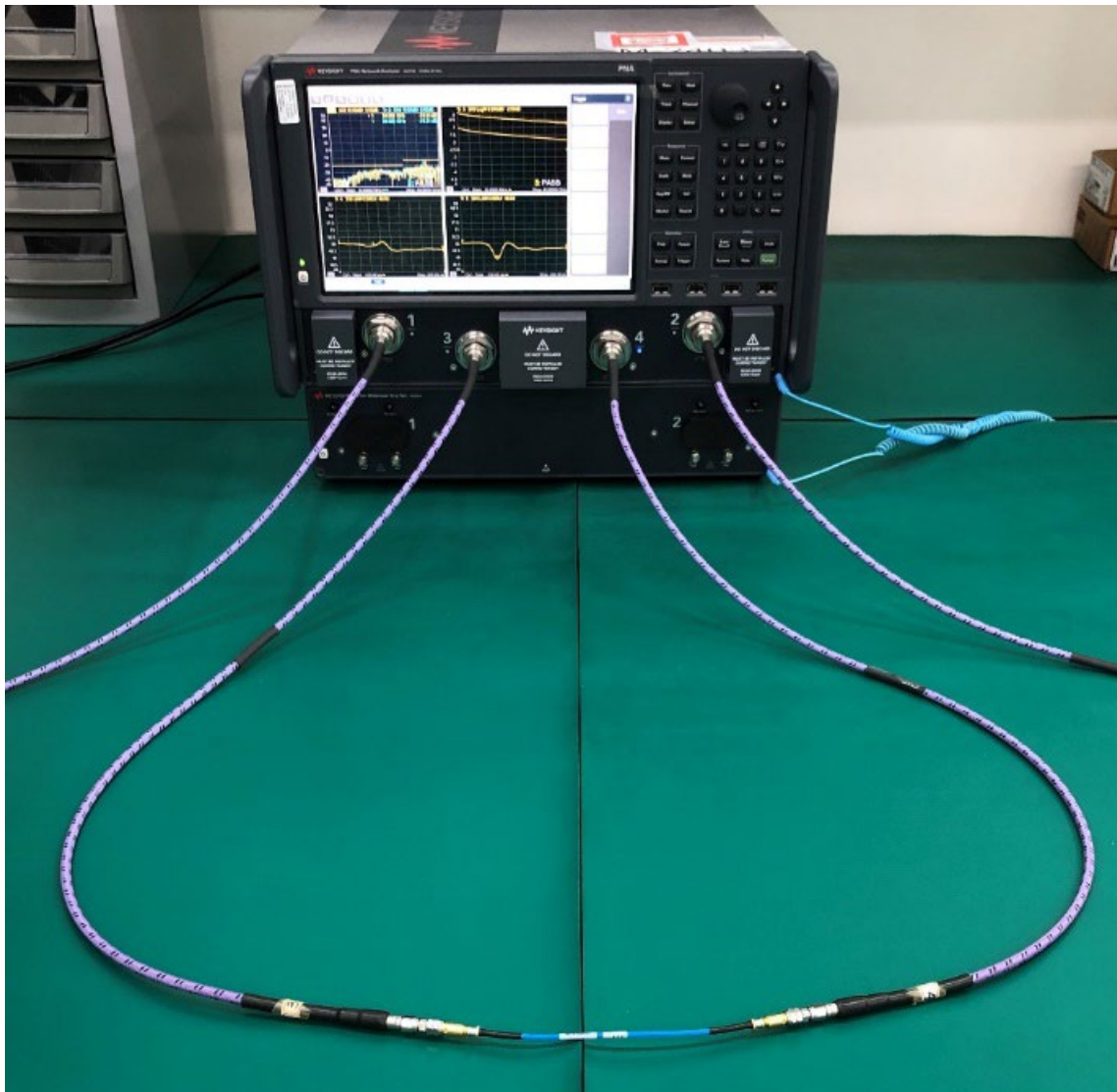
Series: RF086

Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug Ends

RF086-00BL-00BL-XXXX Test Definition

Part Number	End 1	End 2
RF086-00BL-00BL-XXXX	SMP Bulkhead Plug, Limited Detent	SMP Bulkhead Plug, Limited Detent

Cable Under Test:



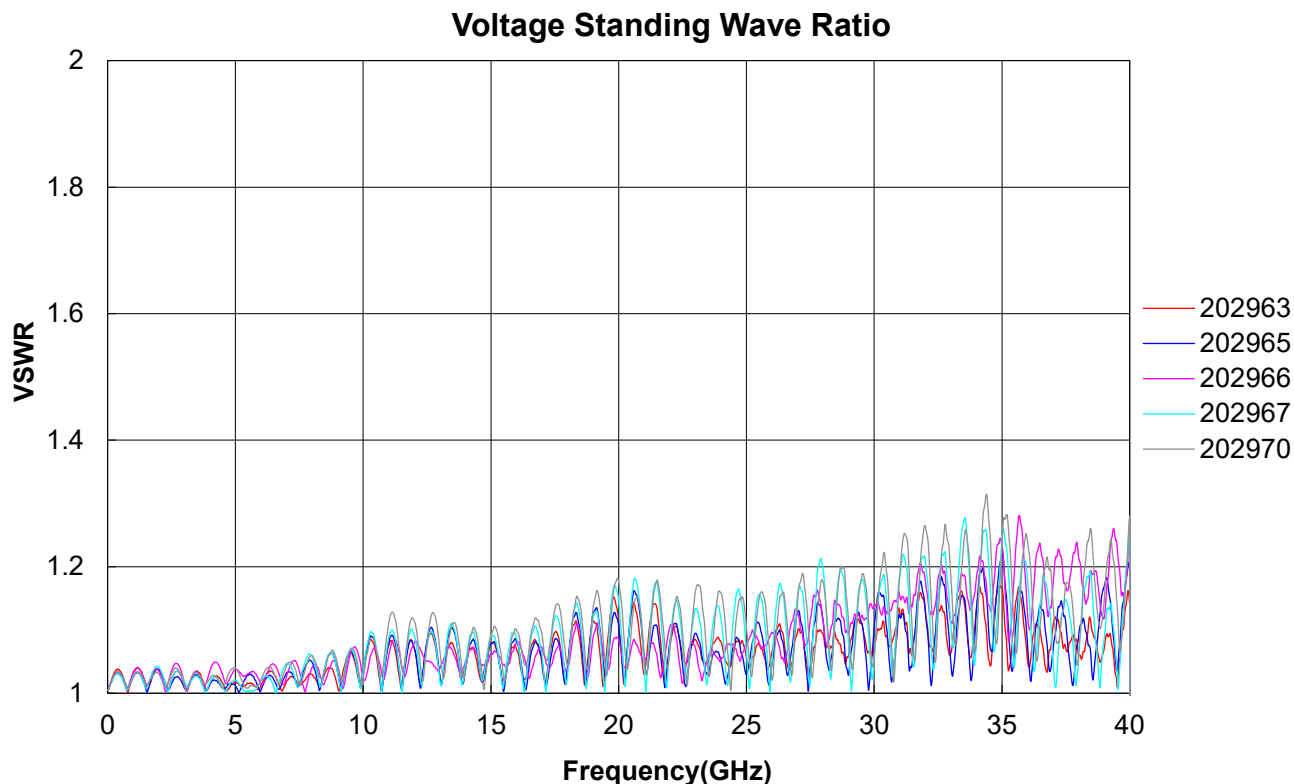
Series: RF086

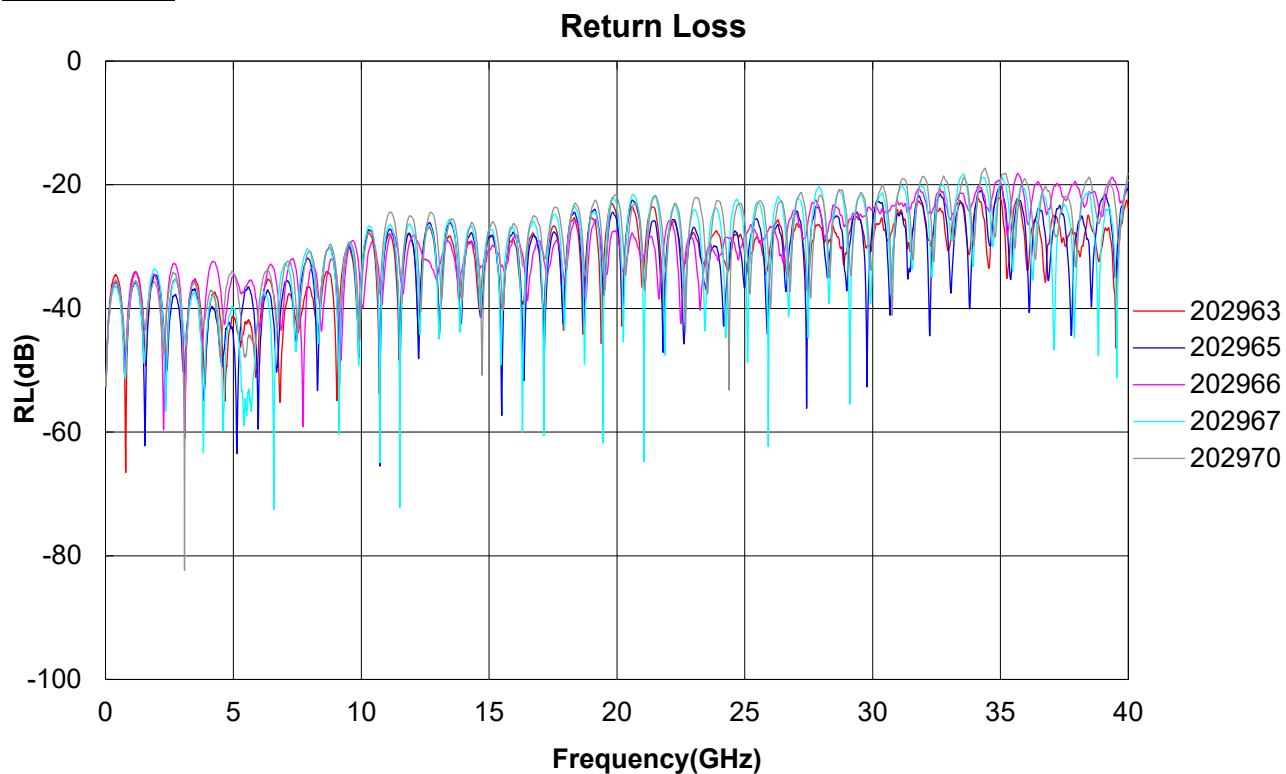
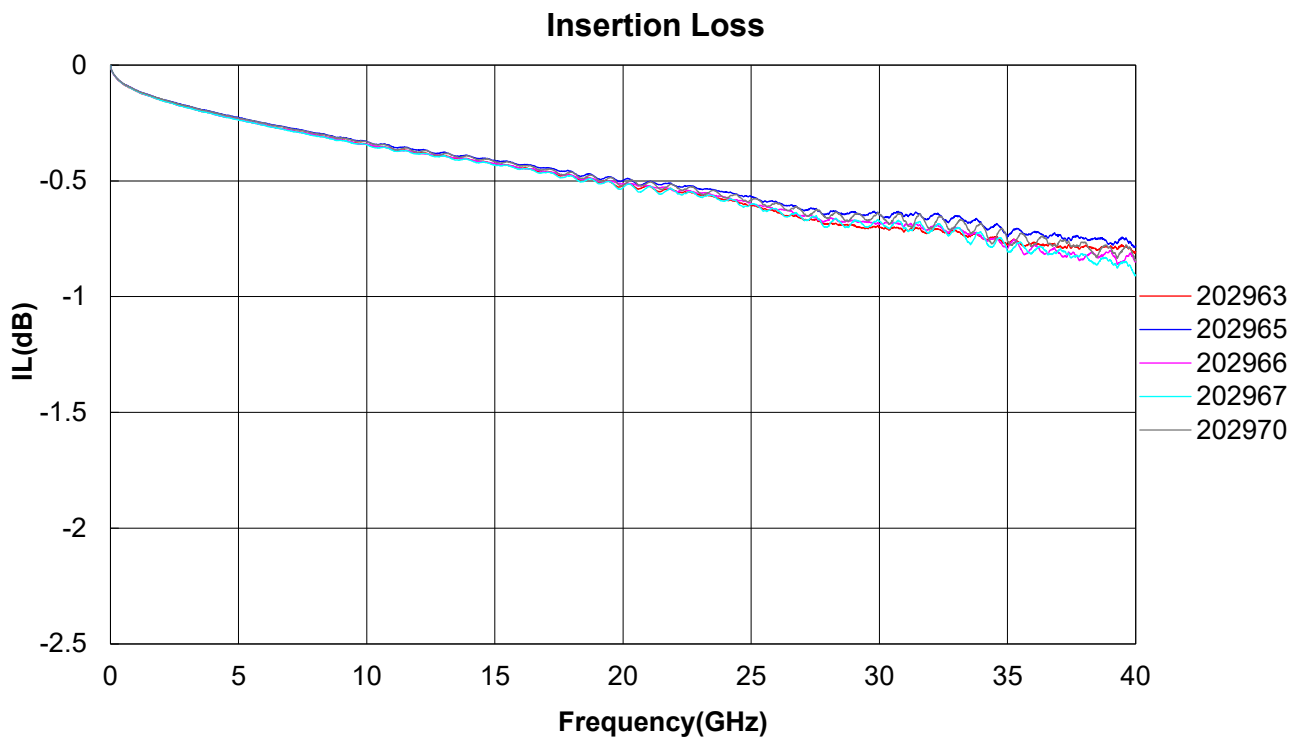
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug Ends

Results: RF086-00BL-00BL-0152

Description: RF086 High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-26.5 (GHz)	SWR (Max) 26.5-40 (GHz)	RL (dB, max) DC-26.5 (GHz)	RL (dB, max) 26.5-40 (GHz)	IL (dB, min) DC-26.5 (GHz)	IL (dB, min) 26.5-40 (GHz)
202963	1.15 @ 19.81 GHz	1.17 @ 34.92 GHz	-23.03 @ 19.81 GHz	-22.08 @ 34.92 GHz	-0.65 @ 26.29 GHz	-0.81 @ 39.97 GHz
202965	1.16 @ 20.61 GHz	1.22 @ 35.02 GHz	-22.49 @ 20.61 GHz	-20.10 @ 35.02 GHz	-0.61 @ 26.29 GHz	-0.79 @ 39.93 GHz
202966	1.11 @ 19.16 GHz	1.28 @ 35.68 GHz	-25.58 @ 19.16 GHz	-18.19 @ 35.68 GHz	-0.63 @ 26.50 GHz	-0.86 @ 39.30 GHz
202967	1.18 @ 20.63 GHz	1.28 @ 33.55 GHz	-21.59 @ 20.63 GHz	-18.27 @ 33.55 GHz	-0.65 @ 26.42 GHz	-0.91 @ 40.00 GHz
202970	1.18 @ 19.95 GHz	1.31 @ 34.39 GHz	-21.60 @ 19.95 GHz	-17.34 @ 34.39 GHz	-0.63 @ 26.43 GHz	-0.85 @ 40.00 GHz

VSWR



Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug Ends**Return Loss****Insertion Loss**

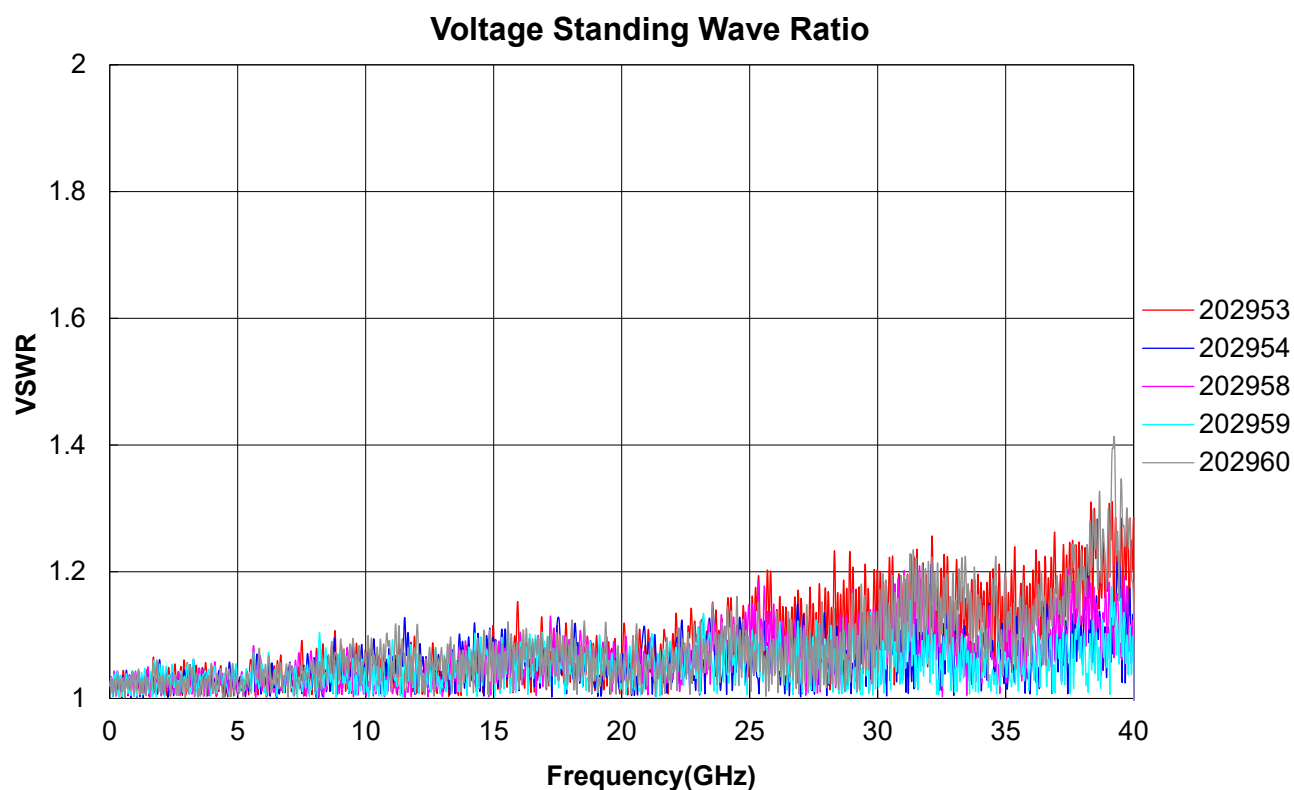
Series: RF086

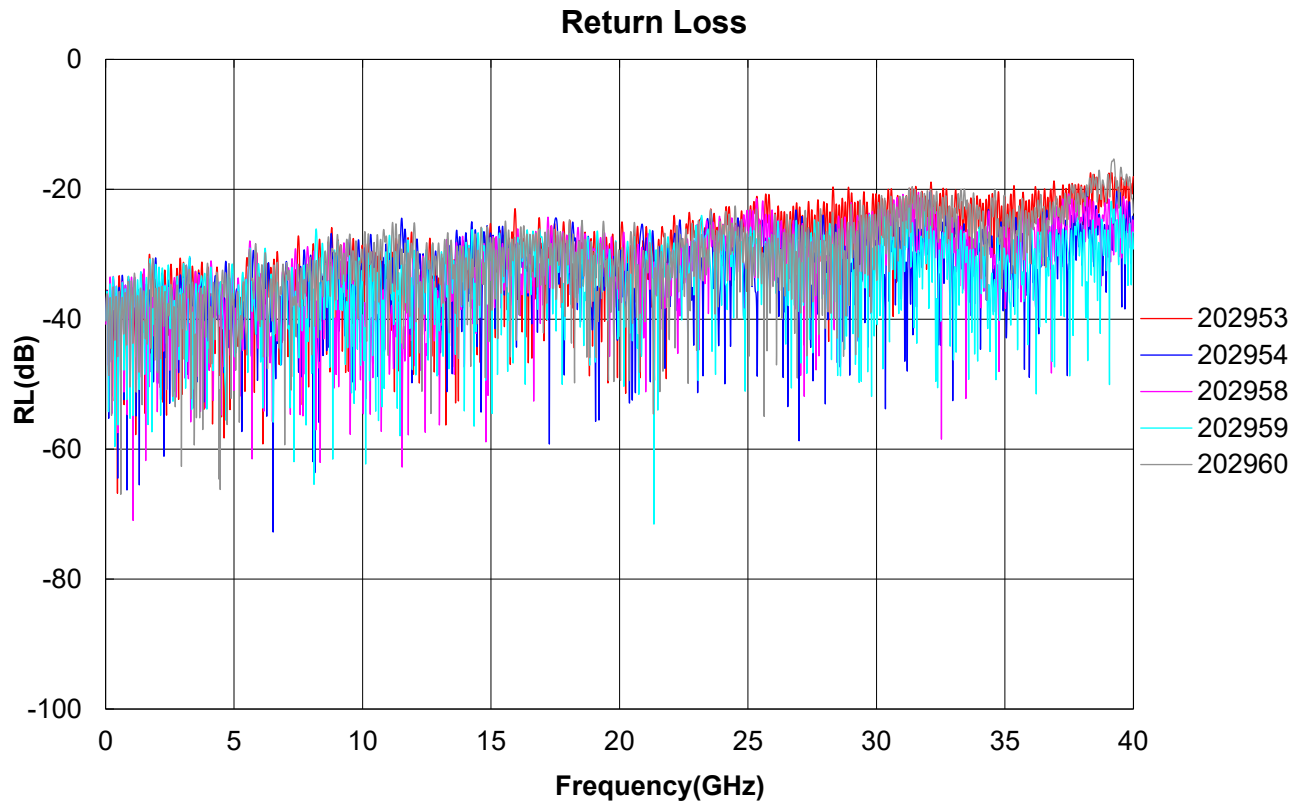
Description: 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug Ends

Results: RF086-00BL-00BL-1000

Description: RF086 High Frequency RF Cable Assembly						
Sample	SWR (Max) DC-26.5 (GHz)	SWR (Max) 26.5-40 (GHz)	RL (dB, max) DC-26.5 (GHz)	RL (dB, max) 26.5-40 (GHz)	IL (dB, min) DC-26.5 (GHz)	IL (dB, min) 26.5-40 (GHz)
202953	1.20 @ 25.69 GHz	1.31 @ 39.16 GHz	-20.72 @ 25.69 GHz	-17.42 @ 39.16 GHz	-4.28 @ 26.42 GHz	-5.75 @ 40.00 GHz
202954	1.14 @ 23.56 GHz	1.23 @ 38.17 GHz	-23.50 @ 23.56 GHz	-19.78 @ 38.17 GHz	-4.19 @ 26.50 GHz	-5.48 @ 39.85 GHz
202958	1.19 @ 25.34 GHz	1.22 @ 31.51 GHz	-21.43 @ 25.34 GHz	-20.05 @ 31.51 GHz	-4.01 @ 26.50 GHz	-5.16 @ 39.98 GHz
202959	1.13 @ 23.19 GHz	1.18 @ 39.14 GHz	-24.02 @ 23.19 GHz	-21.83 @ 39.14 GHz	-4.26 @ 26.50 GHz	-5.92 @ 40.00 GHz
202960	1.16 @ 24.50 GHz	1.41 @ 39.24 GHz	-22.55 @ 24.50 GHz	-15.32 @ 39.24 GHz	-4.15 @ 26.50 GHz	-5.45 @ 39.24 GHz

VSWR



Series: RF086**Description:** 50 Ohm .086" RF Millimeter Wave Cable Assembly, SMP Bulkhead Plug EndsReturn LossInsertion Loss