TYPICAL CHARACTERISTICS
ON
LPF2-2R54-SFF

PMI MODEL: LPF2-2R54-SFF IS A MICROSTRIP LOWPASS FILTER WITH SMA FEMALE CONNECTORS IN/ OUT. THIS UNIT OFFERS A HIGH Q AND LOW INSERTION LOSS

Designed and Tested By: Thaman
August 11, 2020

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TYPICAL CHARACTERISTICS
ON
LPF2-2R54-SFF

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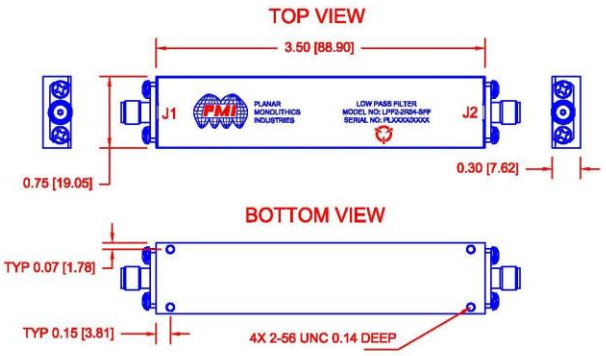
TYPICAL CHARACTERISTICS
ON
LPF2-2R54-SFF

DESCRIPTION

PMI MODEL: LPF2-2R54-SFF IS A MICROSTRIP LOWPASS FILTER WITH SMA FEMALE CONNECTORS IN/OUT. THIS UNIT OFFERS A HIGH Q AND LOW INSERTION LOSS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/22/2010	

MECHANICAL OUTLINE



SPECIFICATIONS

- FREQUENCY: ——— DC TO 2 GHz.
- INSERTION LOSS: ——— 1.0 dB GOAL, 1.5 dB MAX.
- VSWR: ——— 1.5:1 GOAL, 1.8:1 MAX.
- REJECTION @2.5-4GHz: ——— 50dBc MIN.
- IMPEDANCE: ——— 50 Ω.
- CONNECTOR: ——— SMA FEMALE.
- FINISH: ——— PAINTED BLUE.

ENVIRONMENTAL RATINGS

- TEMPERATURE: ——— -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ——— MIL-STD-202, METHOD 103B COND. B
- SHOCK: ——— MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ——— MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ——— MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ——— MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES [mm]
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
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FREDERICK, MARYLAND 21704 USA
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WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN YPU	11/22/10
REDRAWN	
ISSUED	

TITLE: PRODUCT FEATURE
LPF2-2R54-SFF

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27037820	A1

SCALE N:S SHEET 1 OF 1

SUMMARY OF TEST DATA

Sample 1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results
1	Passband	DC To 2 GHz	DC To 2 GHz
2	Insertion loss	1.0dB Goal, 1.5dB Max.	1.2 dB
3	VSWR:	1.5:1 Goal, 1.8:1 Max.	1.3:1
4	Rejection @2.5-4GHz:	50 dBc, Min.	66.5 dBc
5	Impedance:	50 Ω.	

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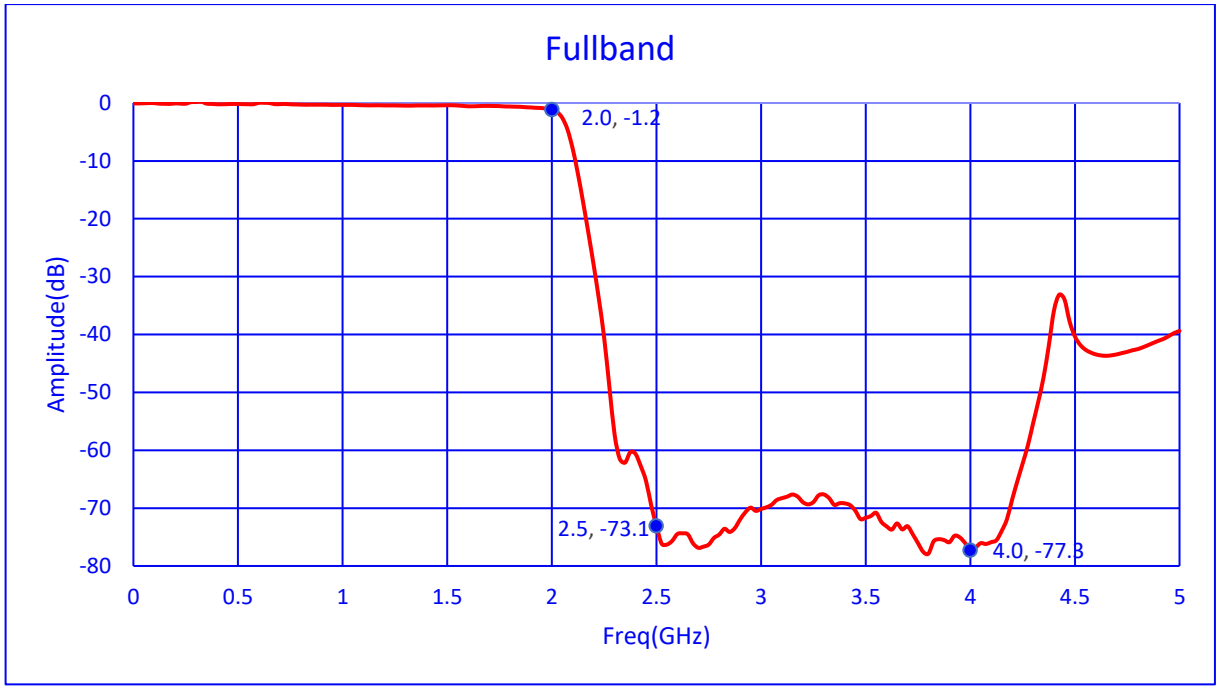
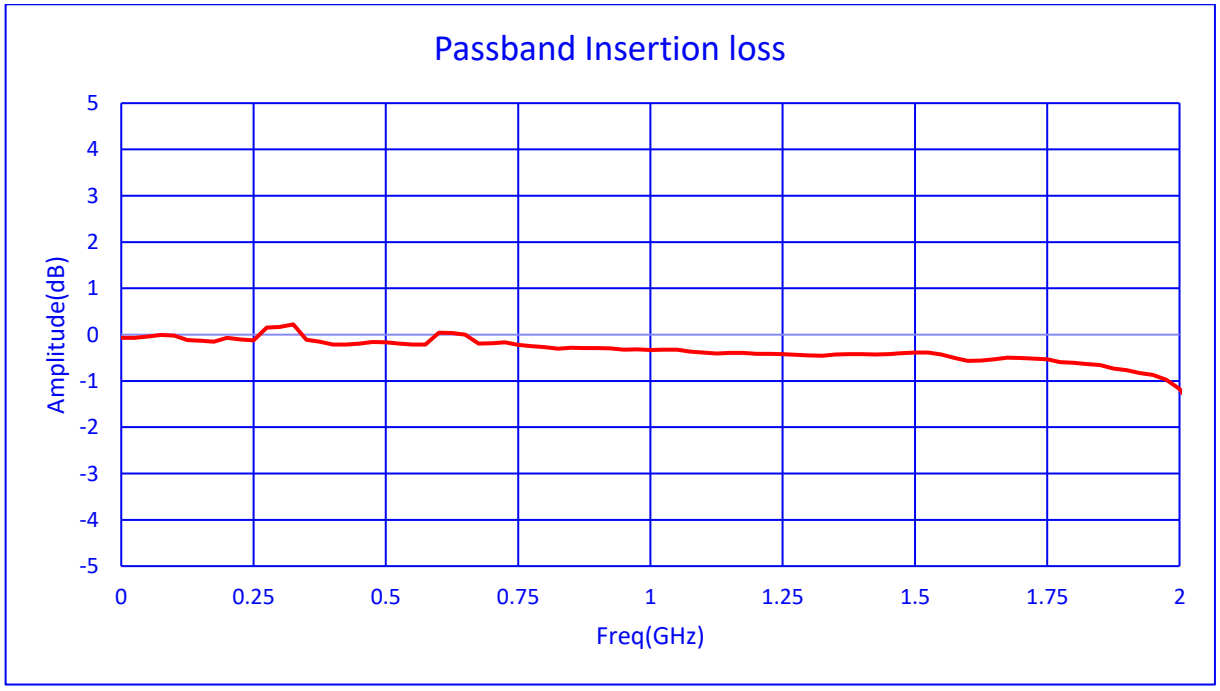
Plots

Sample 1





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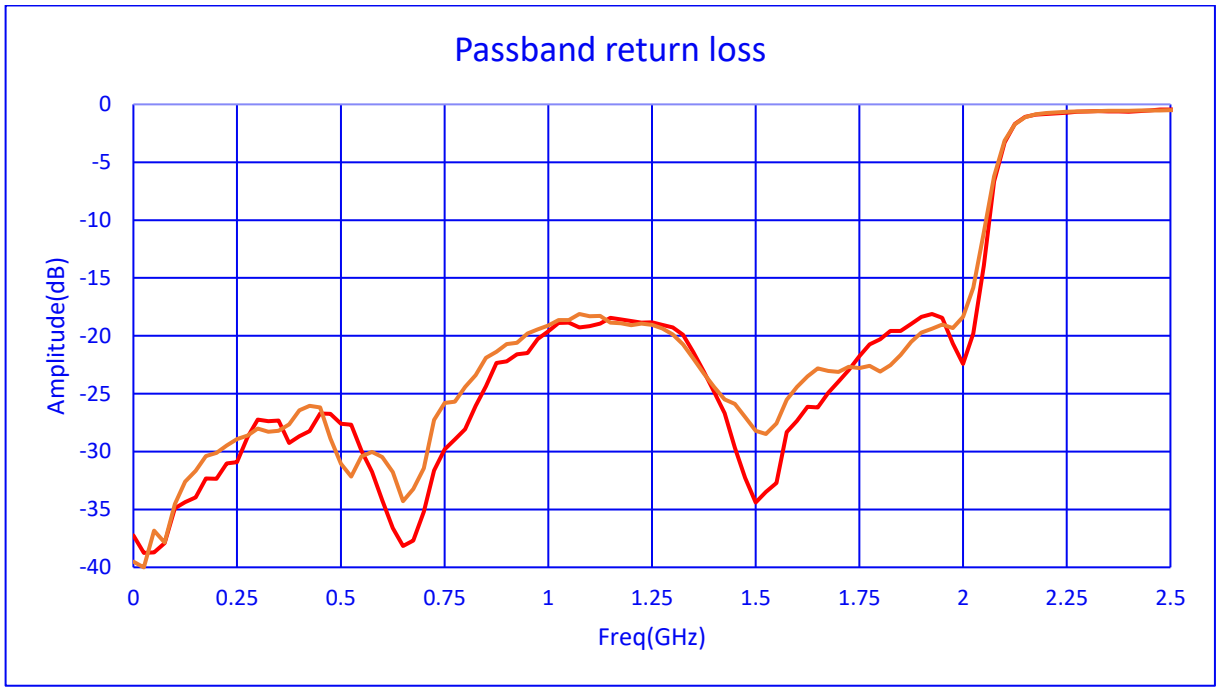
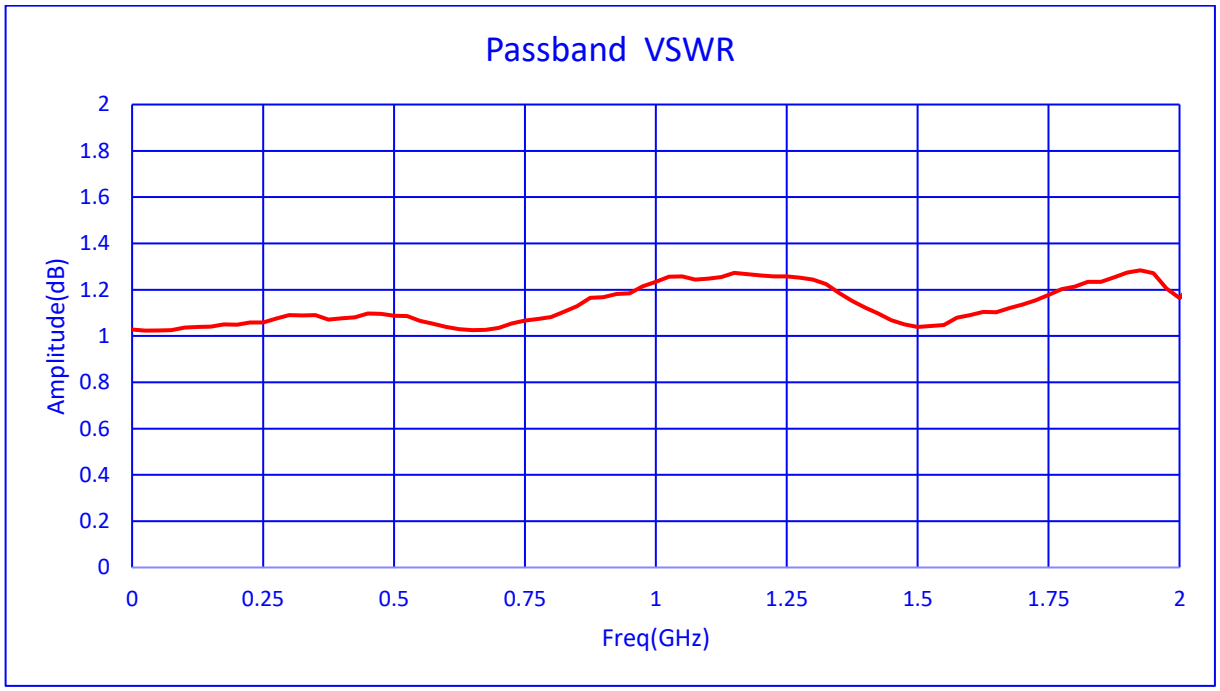
Plots

Sample 1





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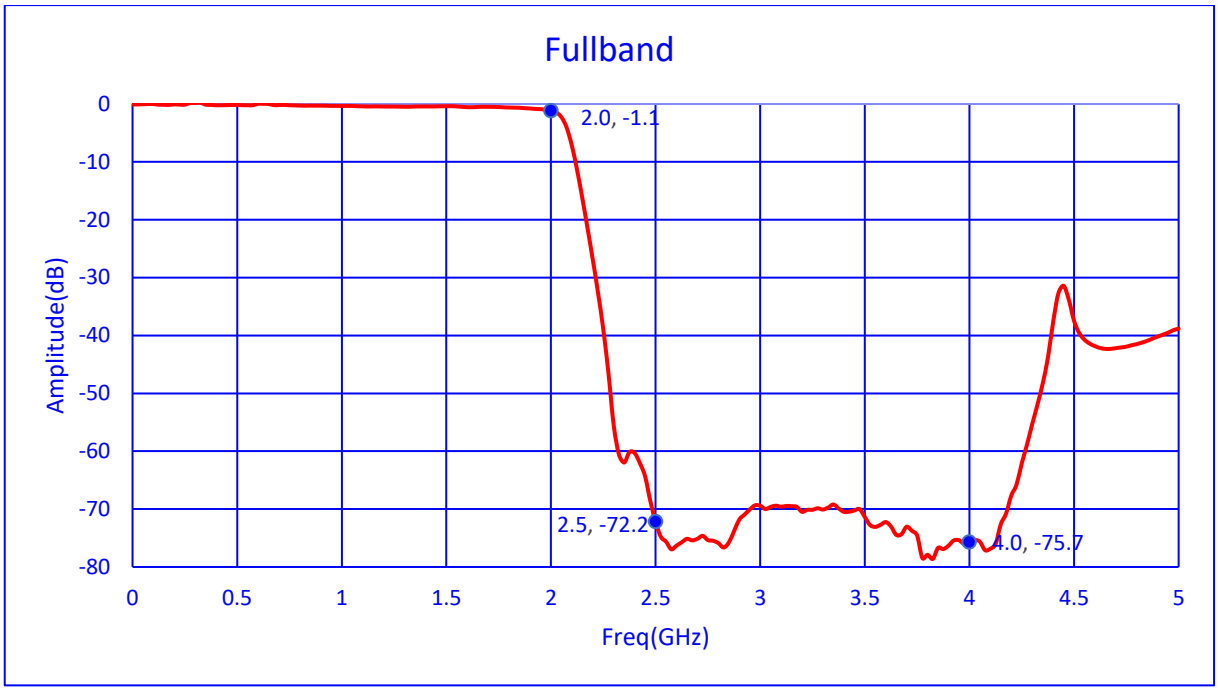
SUMMARY OF TEST DATA

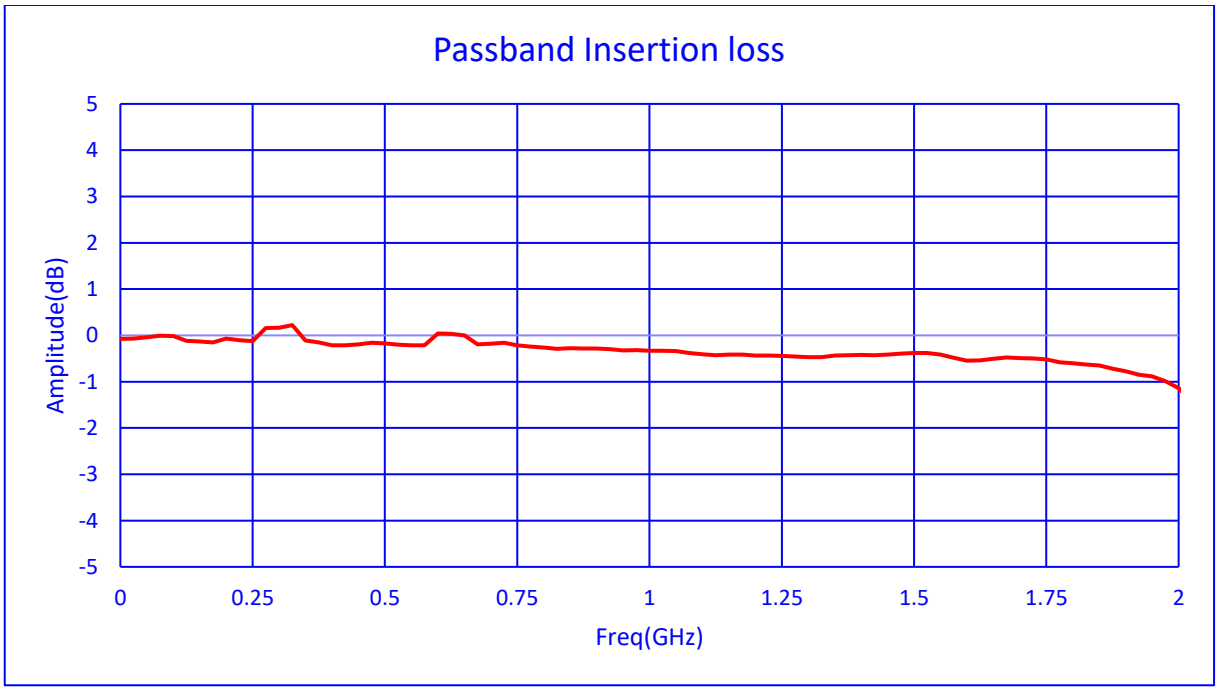
Sample 2

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results
1	Passband	DC To 2 GHz	DC To 2 GHz
2	Insertion loss	1.0dB Goal, 1.5dB Max.	1.14 dB
3	VSWR:	1.5:1 Goal, 1.8:1 Max.	1.38:1
4	Rejection @2.5-4GHz:	50 dBc, Min.	68 dBc
5	Impedance:	50 Ω.	

Plots

Sample 2





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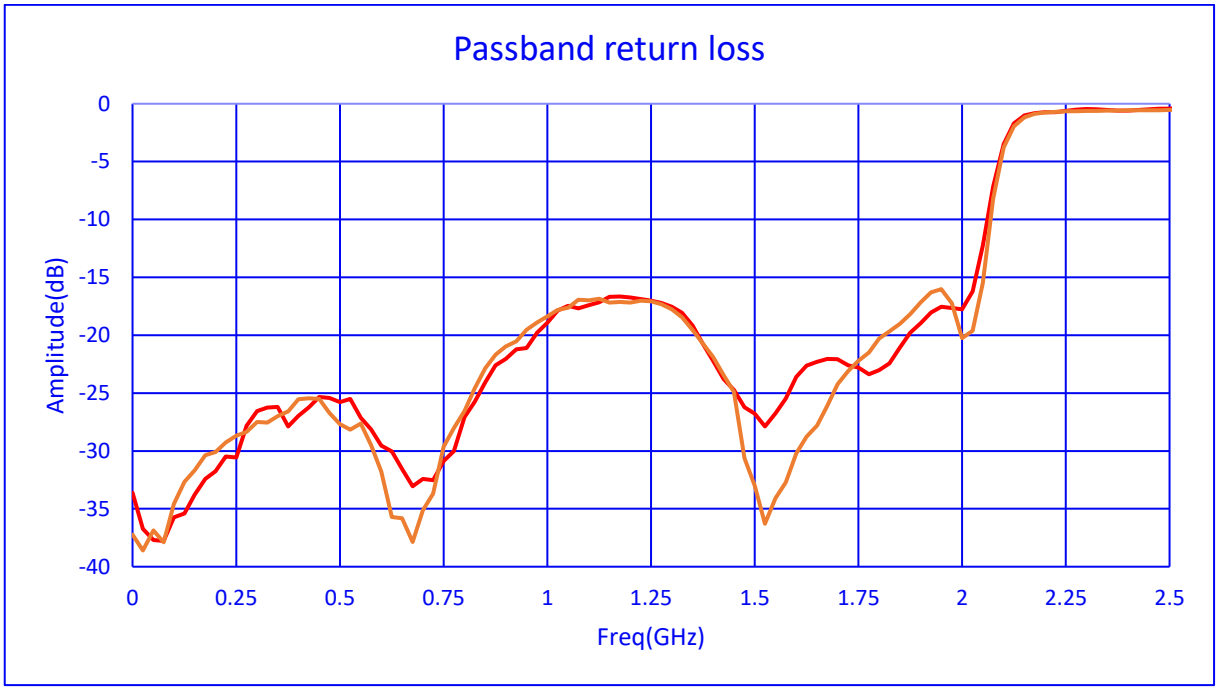
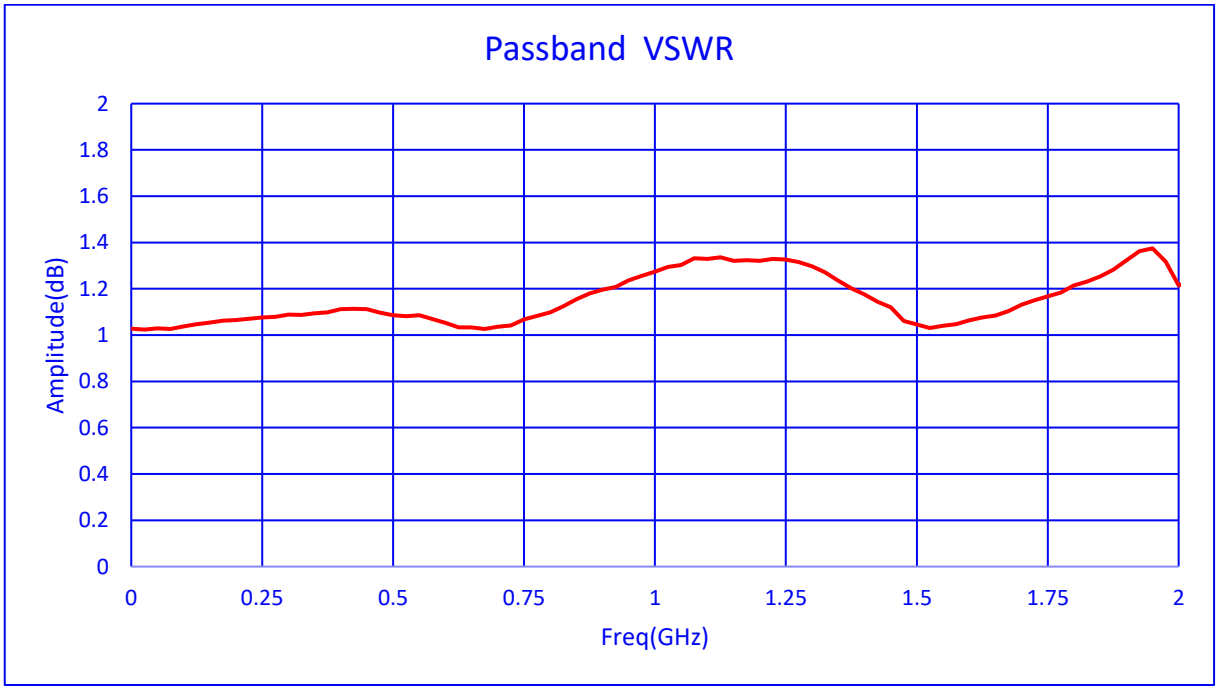
Plots

Sample 2





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SUMMARY OF TEST DATA

Sample 3

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results
1	Passband	DC To 2 GHz	DC To 2 GHz
2	Insertion loss	1.0dB Goal, 1.5dB Max.	1.28 dB
3	VSWR:	1.5:1 Goal, 1.8:1 Max.	1.38:1
4	Rejection @2.5-4GHz:	50 dBc, Min.	67.5 dBc
5	Impedance:	50 Ω.	

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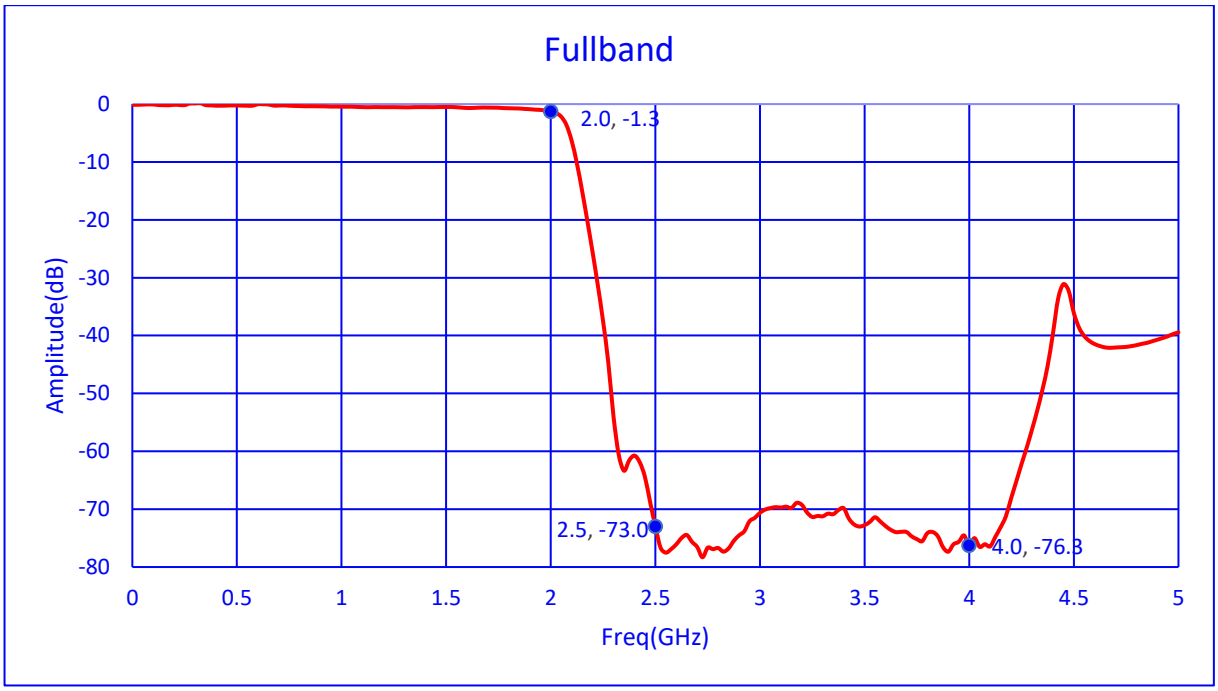
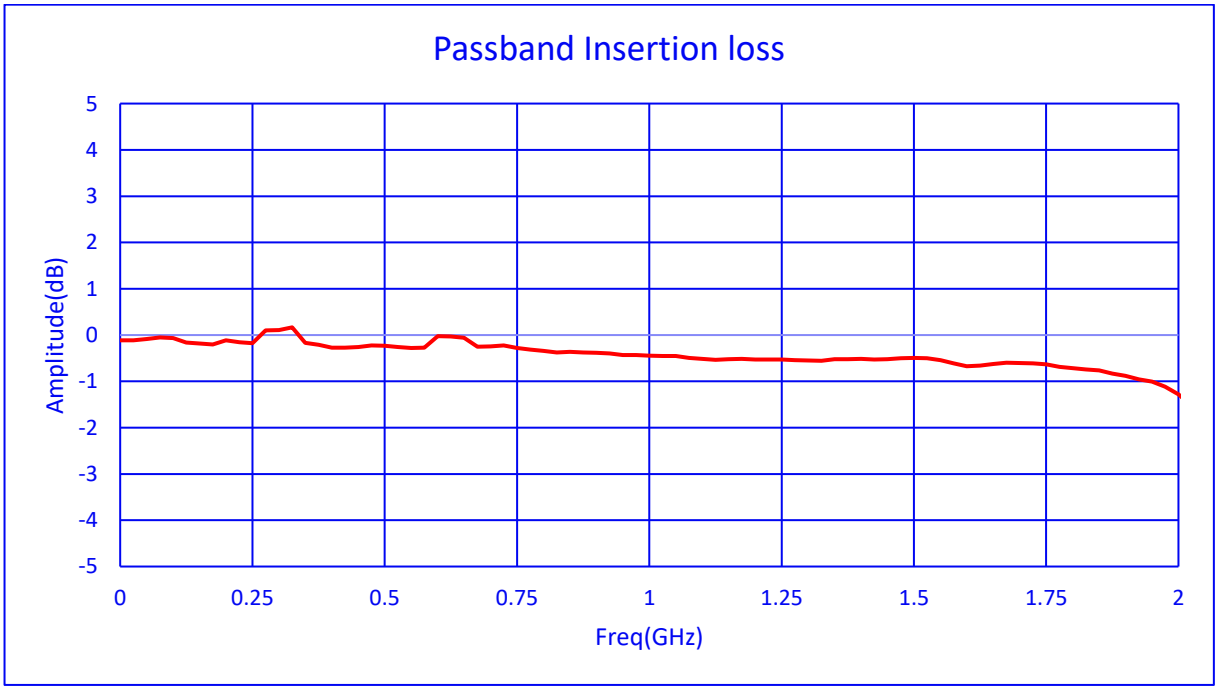
Plots

Sample 3





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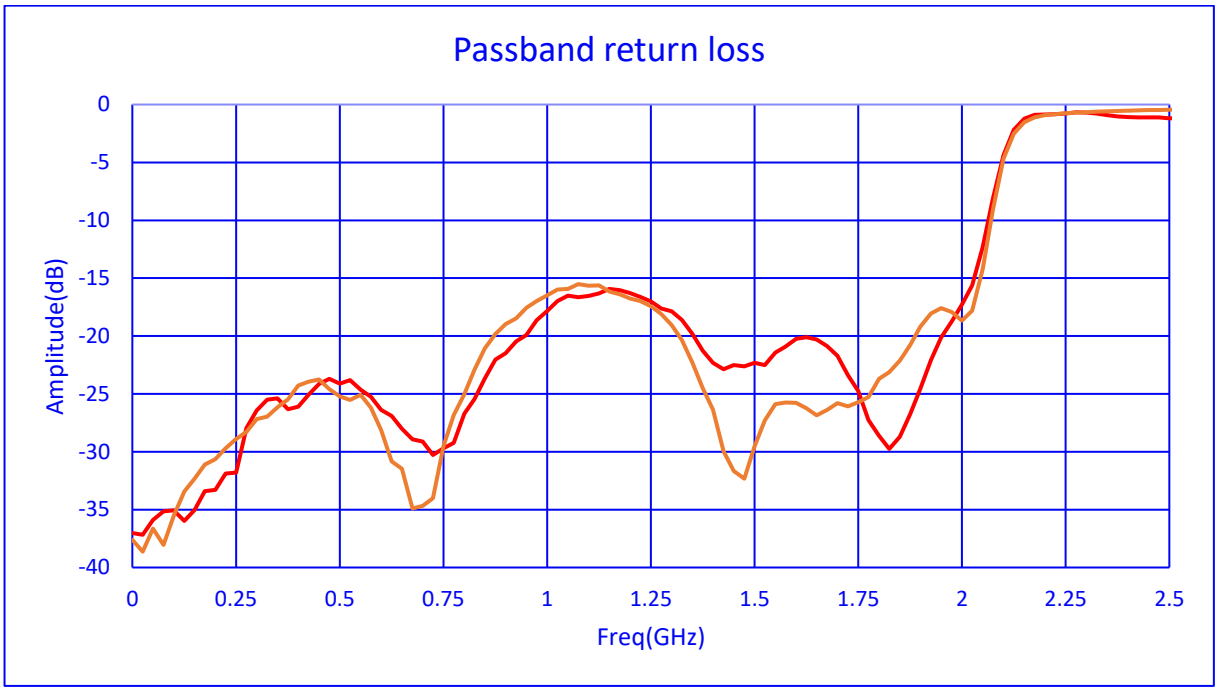
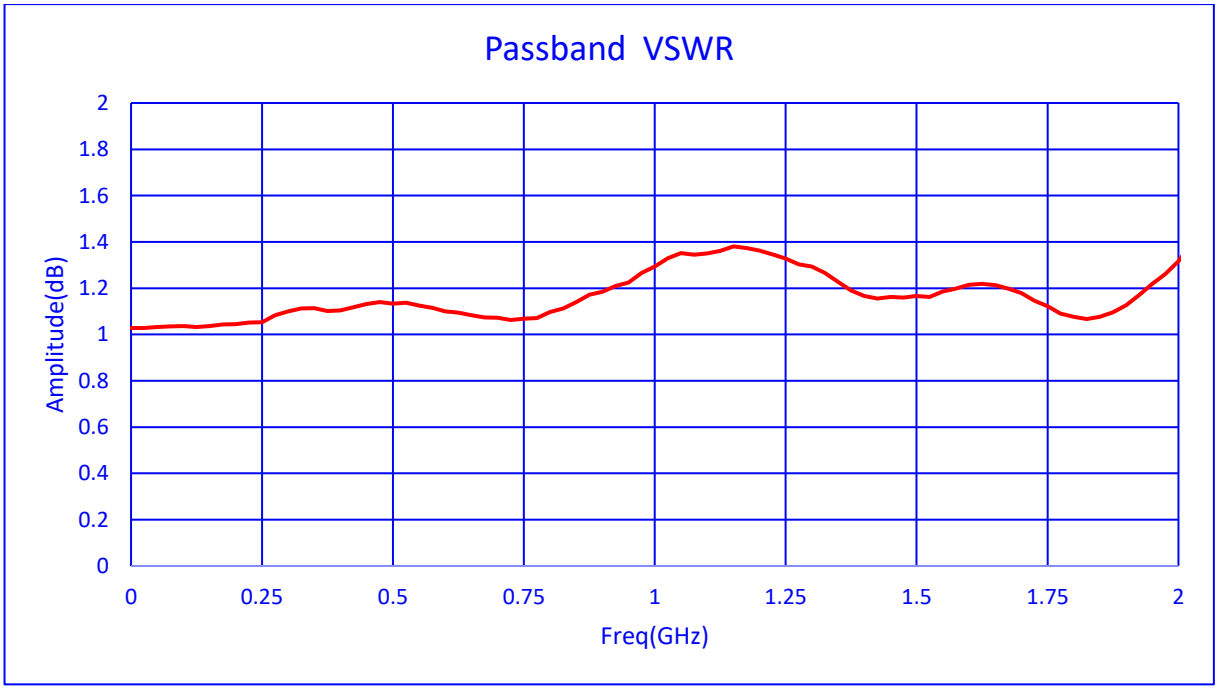
Plots

Sample 3





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