



**TYPICAL CHARACTERISTICS
ON
LPF3R5-47-SFF**

**PMI MODEL: LPF3R5-47-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
September 29, 2020**



**TYPICAL CHARACTERISTICS
ON
LPF3R5-47-SFF**

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TYPICAL CHARACTERISTICS ON LPF3R5-47-SFF

DESCRIPTION:

PMI MODEL: LPF3R5-47-SFF IS A MICROSTRIP LOWPASS FILTER WITH SMA FEMALE CONNECTORS IN/ OUT. THIS UNIT OFFERS A HIGH Q AND LOW INSERTION LOSS.

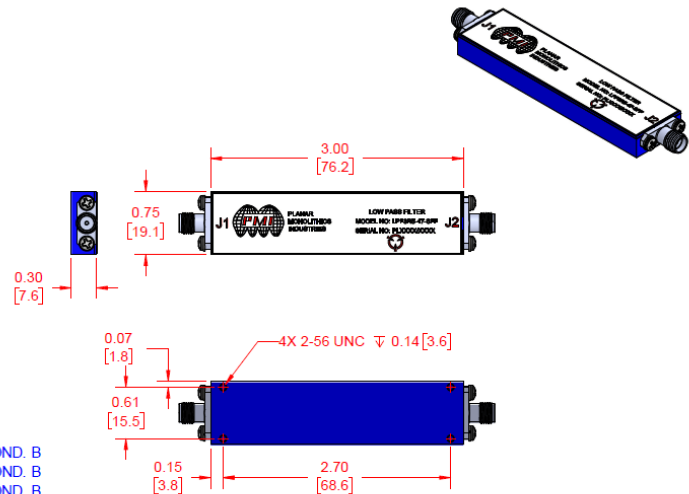
SPECIFICATIONS:

- FREQUENCY:.....DC TO 3.5 GHz
- INSERTION LOSS:.....1.0 dB GOAL, 1.5 dB MAX
- VSWR:.....1.5:1 GOAL, 1.8:1 MAX
- REJECTION @ 4-7 GHz:.....50 dBc MIN
- IMPEDANCE:.....50 Ω
- CONNECTORS:.....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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/03/09	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED

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

APPROVALS	DATE	TITLE
DESIGNED	11/03/09	PRODUCT FEATURE
DRAWN		LPF3R5-47-SFF
REVISED		
SIZE	PICW NO.	DWG NO.
B	05XQ0	27037800
SCALE	2:1	SHEET 1 OF 1

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731

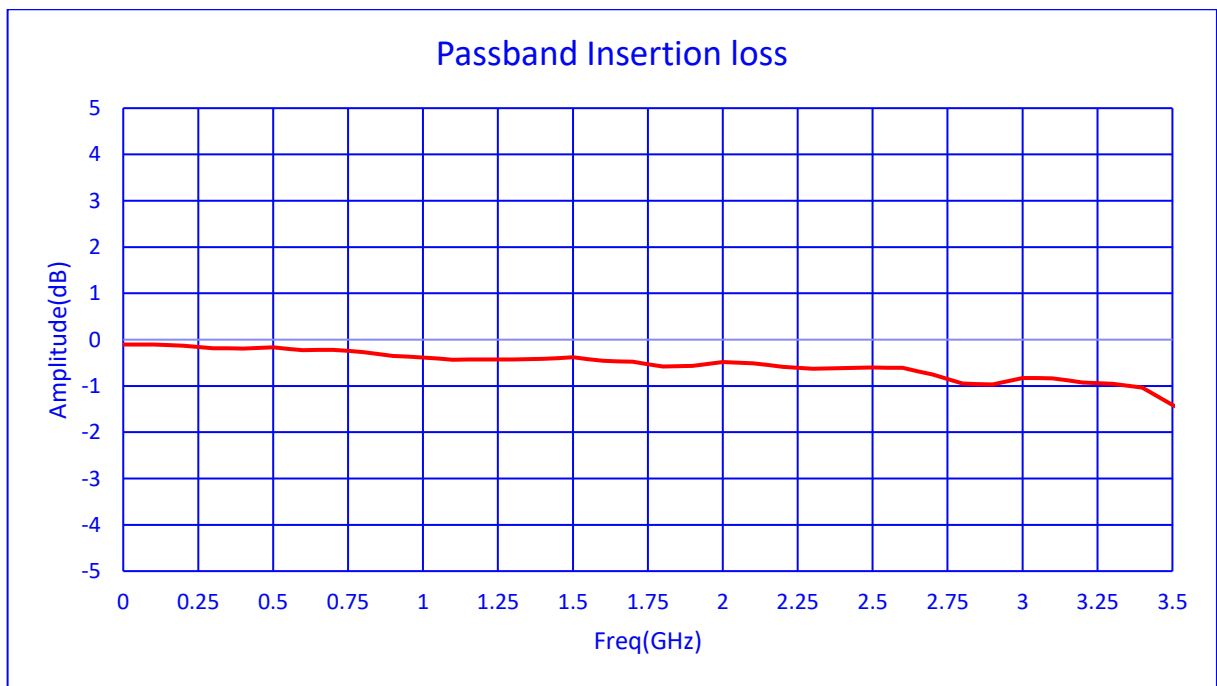
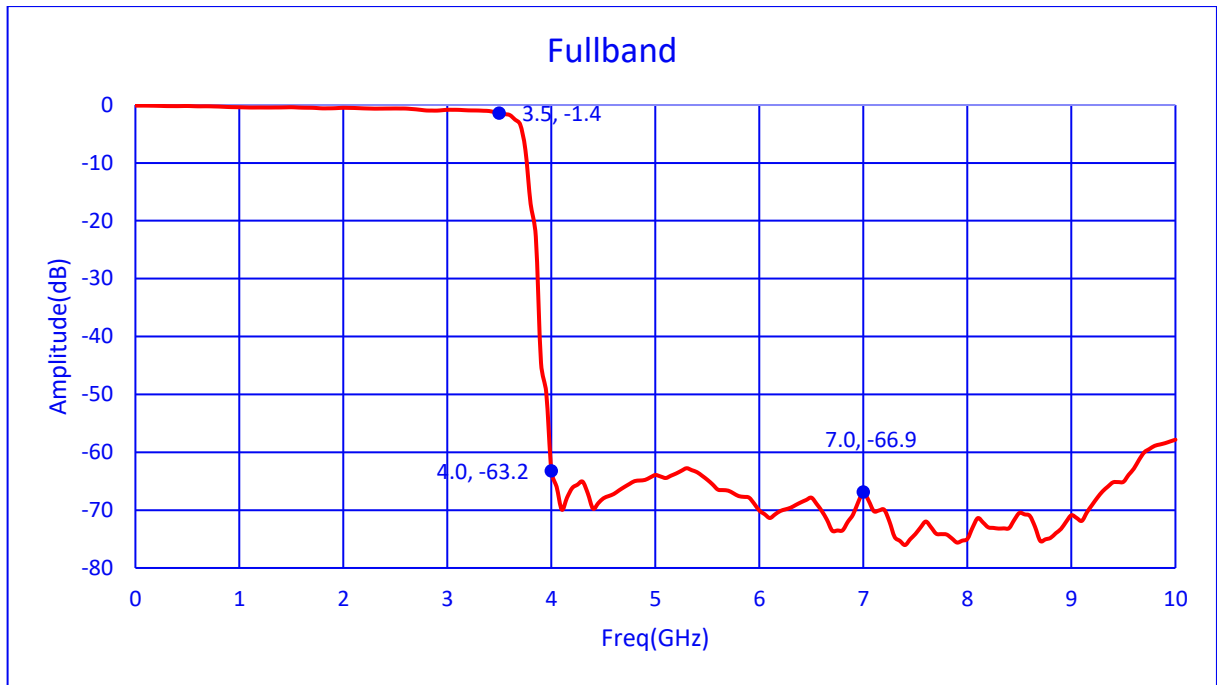
SUMMARY OF TEST DATA

Sample 1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results
1	Passband	DC To 3.5 GHz	DC To 3.5 GHz
2	Insertion loss	1.0dB Goal, 1.5dB Max.	1.41 dB
3	VSWR:	1.5:1 Goal, 1.8:1 Max.	1.67:1
4	Rejection @ 4-7GHz:	50 dBc, Min.	61.3 dBc
5	Impedance:	50 Ω .	

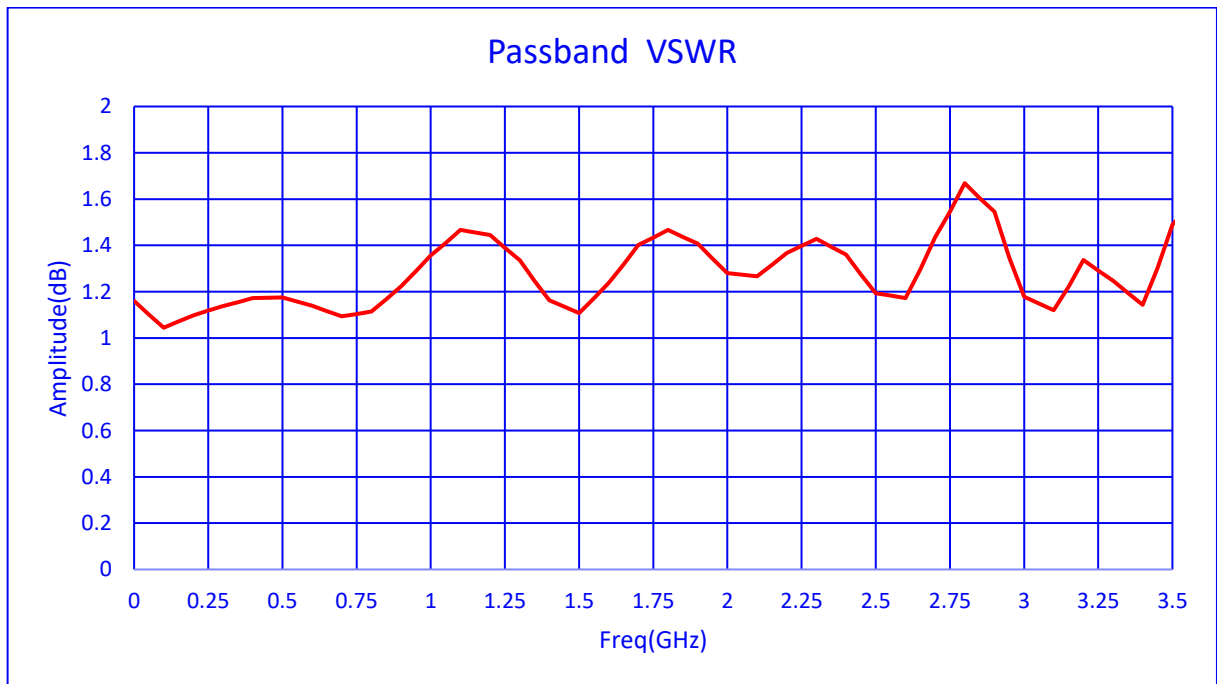
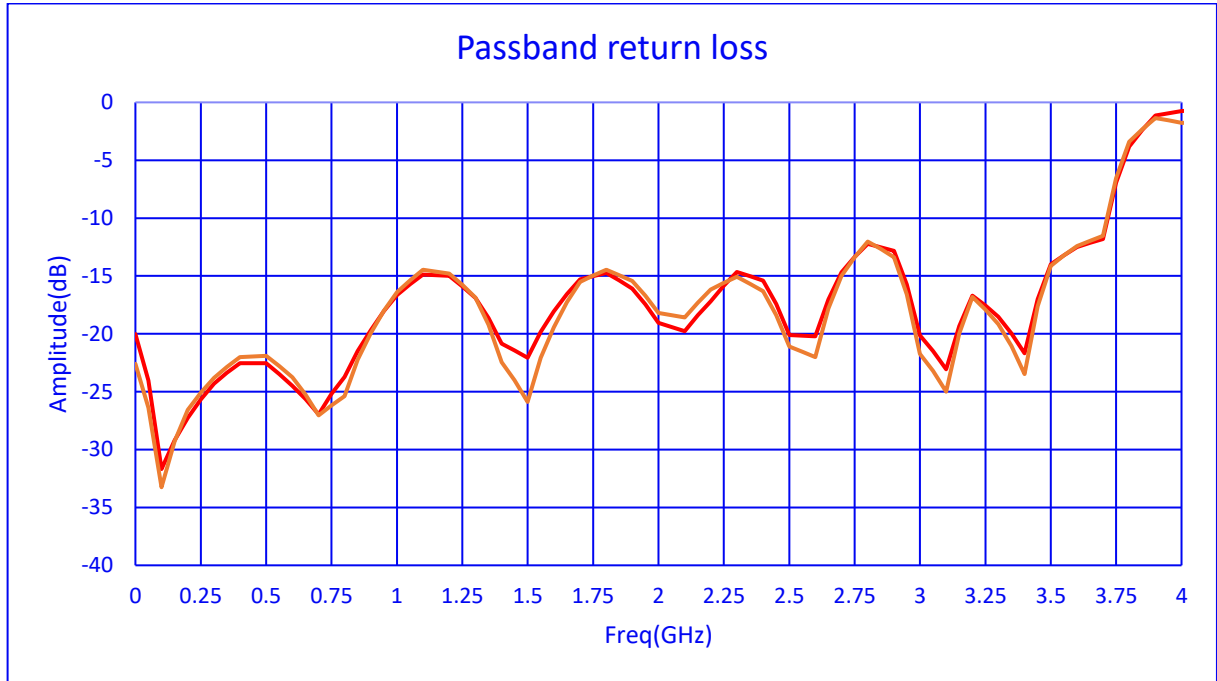
Plots

Sample 1



Plots

Sample 1



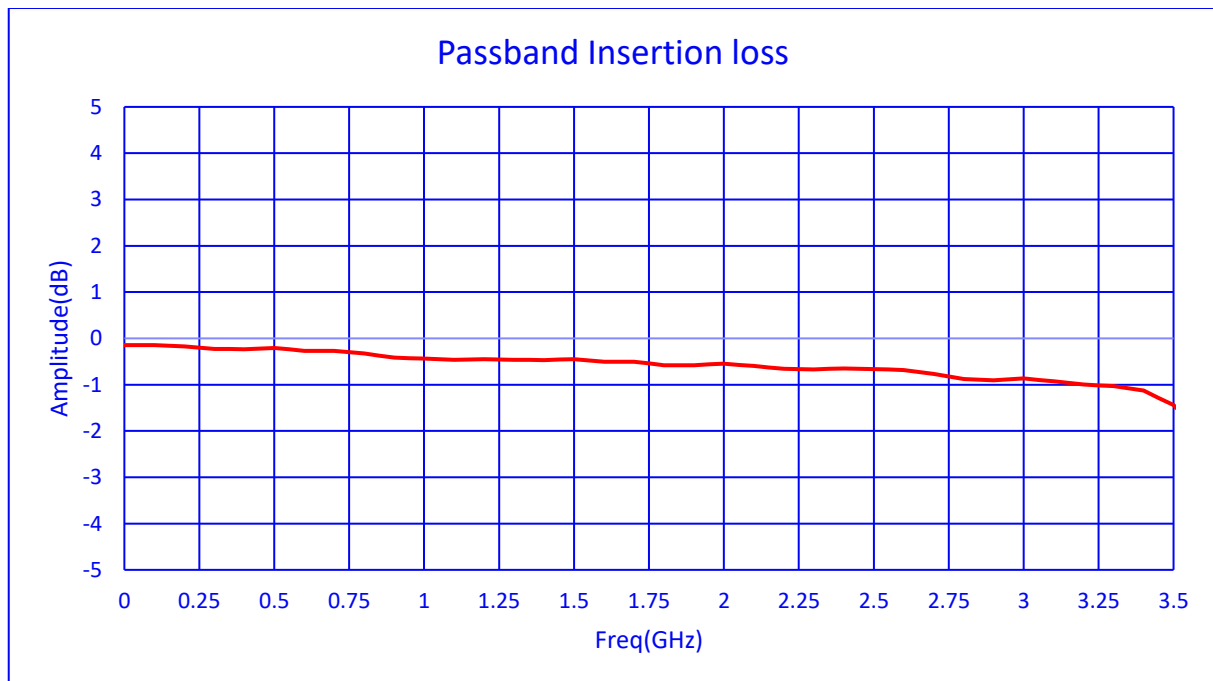
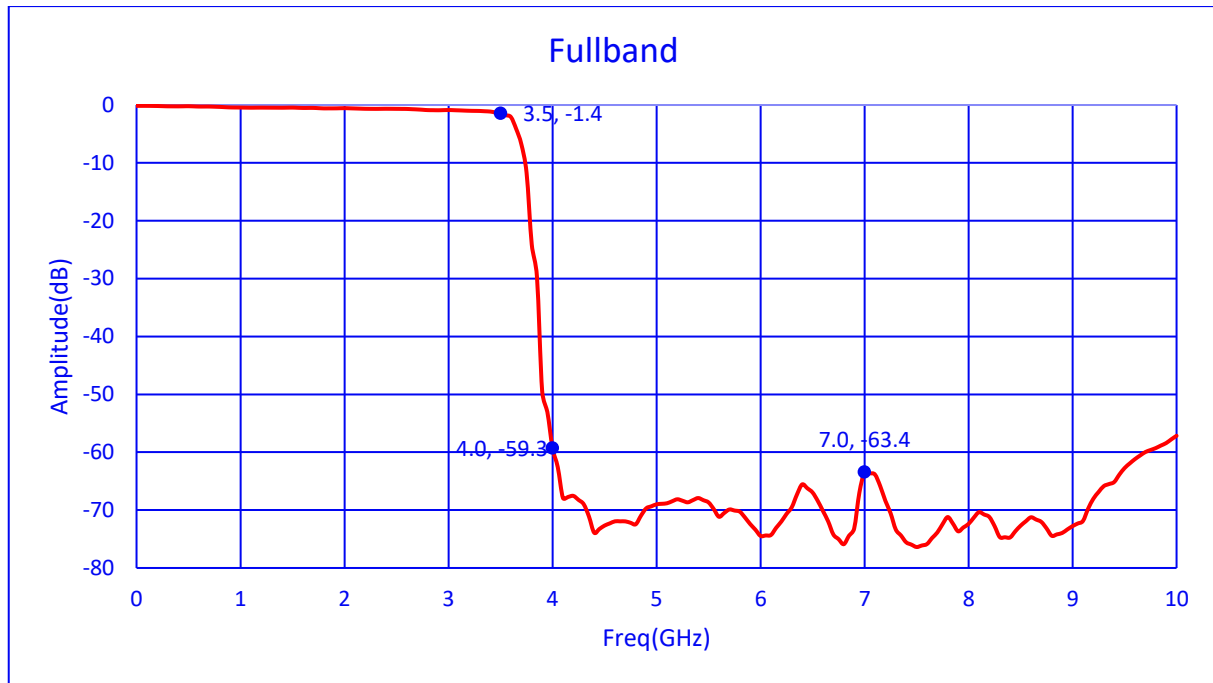
SUMMARY OF TEST DATA

Sample 2

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results
1	Passband	DC To 3.5 GHz	DC To 3.5 GHz
2	Insertion loss	1.0dB Goal, 1.5dB Max.	1.44 dB
3	VSWR:	1.5:1 Goal, 1.8:1 Max.	1.46:1
4	Rejection @ 4-7GHz:	50 dBc, Min.	57.9 dBc
5	Impedance:	50 Ω .	

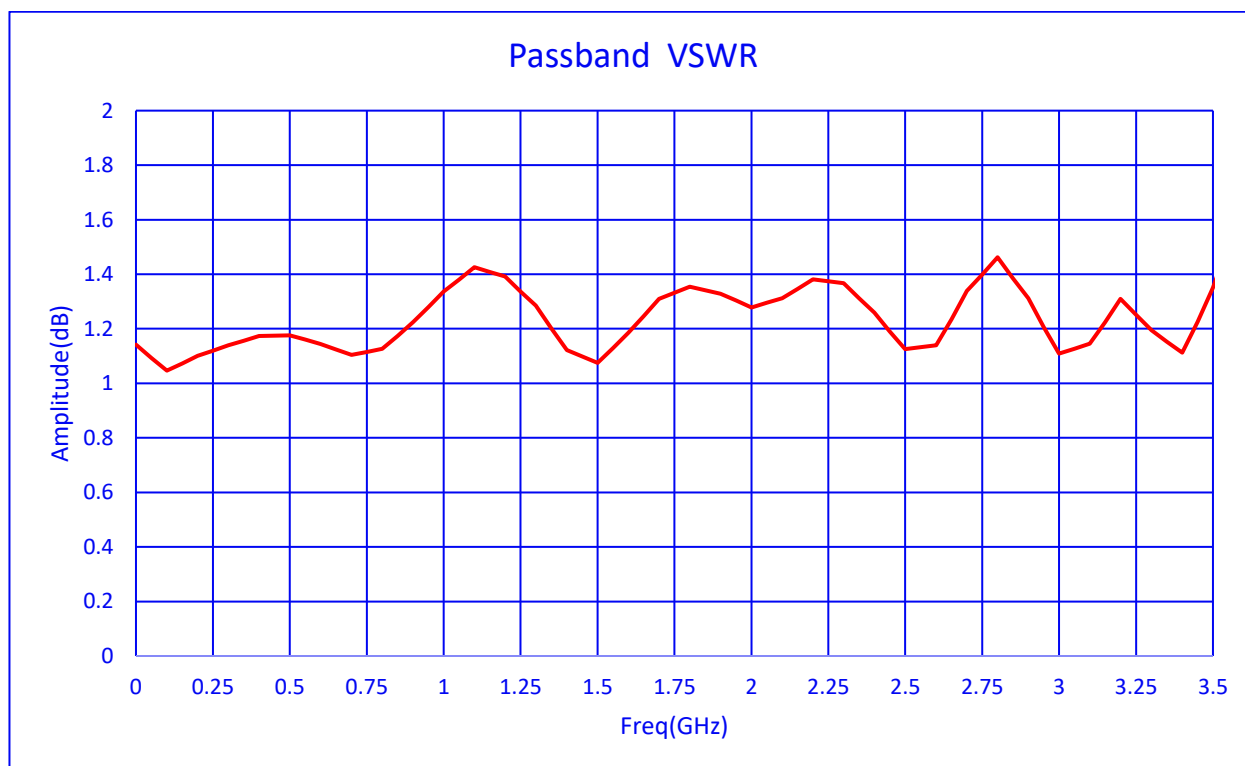
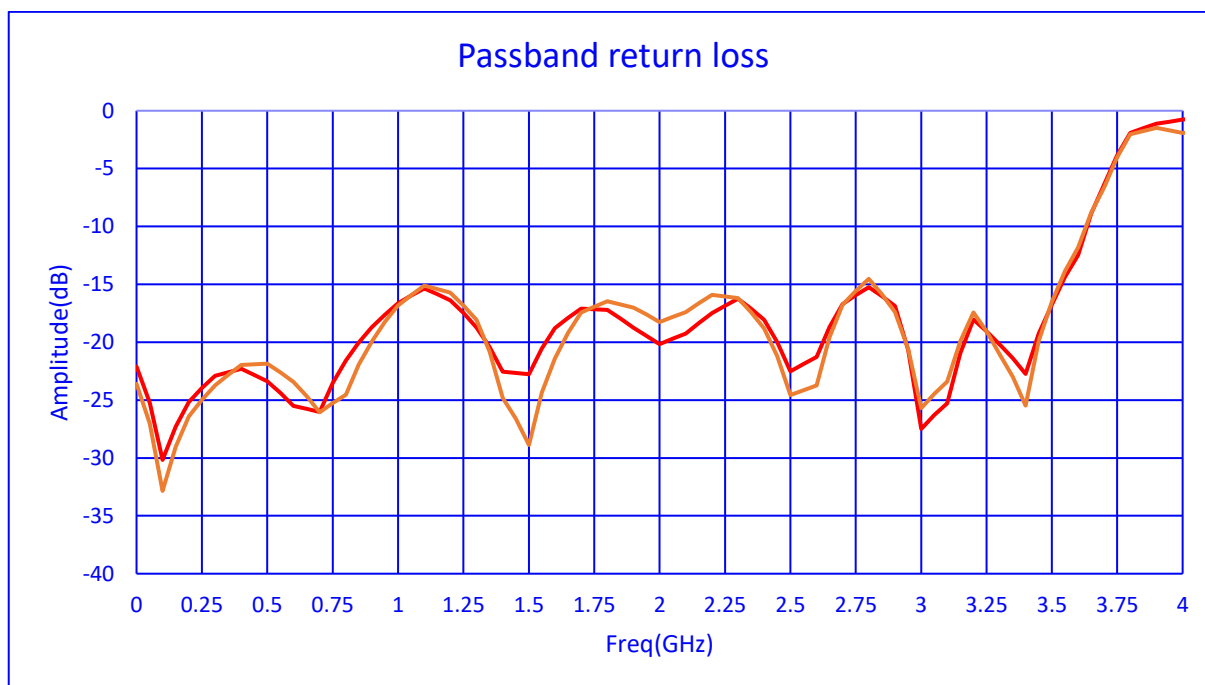
Plots

Sample 2



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 3.5 GHz	DC To 3.5 GHz
2	Insertion loss	1.0dB Goal, 1.5dB Max.	1.36 dB
3	VSWR:	1.5:1 Goal, 1.8:1 Max.	1.60:1
4	Rejection @4-7GHz:	50 dBc, Min.	53.7 dBc
5	Impedance:	50 Ω .	

Plots

Sample 3

