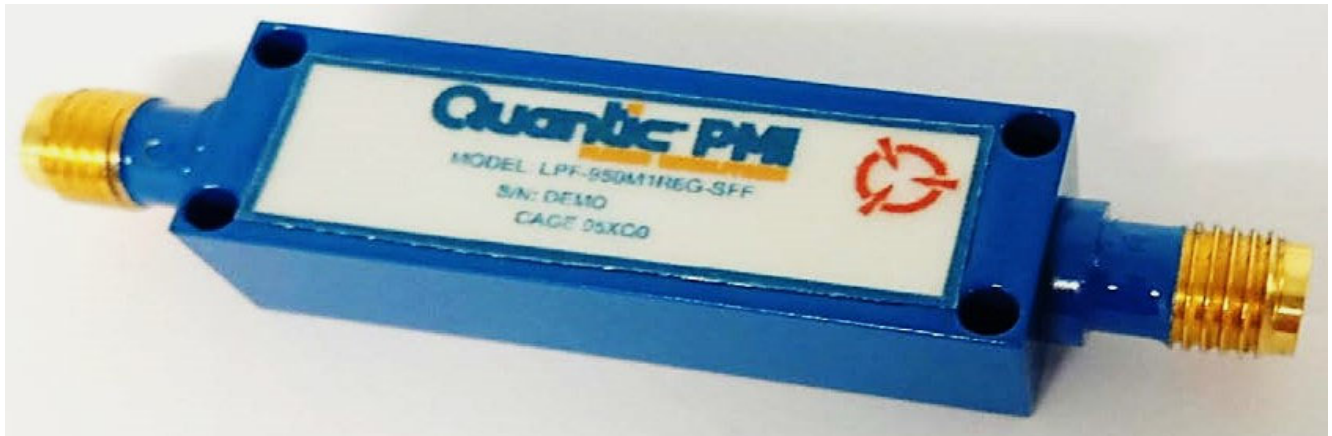


**TYPICAL CHARACTERISTICS
ON
LPF-950M1R6G-SFF**

AN LC LOWPASS FILTER WITH SMA FEMALE CONNECTORS IN AND OUT.



**Reported By
Y Li
13 November 2023**

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Email: sales@quanticpmi.com

TYPICAL CHARACTERISTICS ON LPF-950M1R6G-SFF

DESCRIPTION

PMI MODEL NO. LPF-950M1R6G-SFF IS A LOW PASS FILTER WITH A FREQUENCY RANGE OF 0,95 TO 1,6 GHz, IT HAS AN INSERTION LOSS OF 1,2 dB MAXIMUM AND A MAXIMUM VSWR OF 1,5:1. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS,

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/1/2023	

SPECIFICATIONS @ 25°C

- FREQUENCY RANGE: 0.95 TO 1.6 GHz
- FLATNESS: 1.2 dB MAX
- INSERTION LOSS: 1.2 dB MAX
- VSWR: 1.5:1 MAX
- REJECTION @ 1.8 TO 5.0 GHz: 40 dBc MIN
- INPUT POWER: 20 WATT MAX
- CONNECTORS: SMA FEMALE
- FINISH: PAINTED BLUE
- WEIGHT: 2 oz MAX.

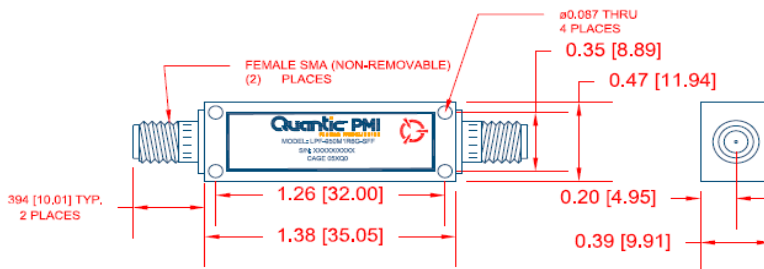
ENVIRONMENTAL RATINGS

- TEMPERATURE: 0 °C TO +70 °C (OPERATING)
-20 °C TO +70 °C (STORAGE)
- HUMIDITY: MIL-HDBK-5400 4.6.2.4
OPERATING: RH90% MAX
NON-OPERATING: RH 90% MAX
NON-CONDENSATION
- SHOCK: MIL-HDBK-5400 4.6.2.6
•Part 1 - I: Sawtooth wave 20G 11ms
•Part 1 - IV: Drop test during maintenance
•Part 2 Crash Safety: Sawtooth wave 40G 11ms
- VIBRATION: MIL-HDBK-5400 4.6.2.5 (apply JET AIRCRAFT equipment airborne)
•Performance
Test: W1=0,04G²/Hz, W2=0,03G²/Hz,
Overall=6,86Grms: 0.5Hr x 2 Times x 3 Axes
•Endurance
Test: W1=0,04G²/Hz, W2=0,166G²/Hz,
Overall=15,07Grms: 3Hrs x 3 Axes
- ALTITUDE: MIL-HDBK-5400 CLASS1 (UPPER LIMIT OF 10,500 FT)
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

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

PMI CONFIDENTIAL AND PROPRIETARY

MECHANICAL OUTLINE



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TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.quantipmi.com
EMAIL: sales@quantipmi.com
ISO 9001 CERTIFIED

Quantic PMI
PLASMA POLYMERIZATION

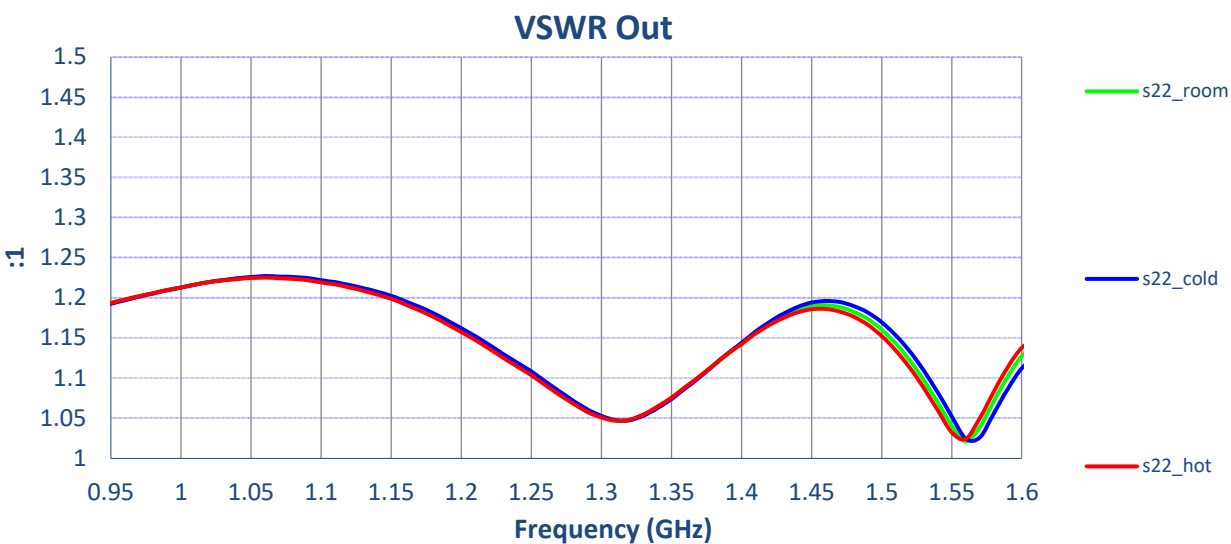
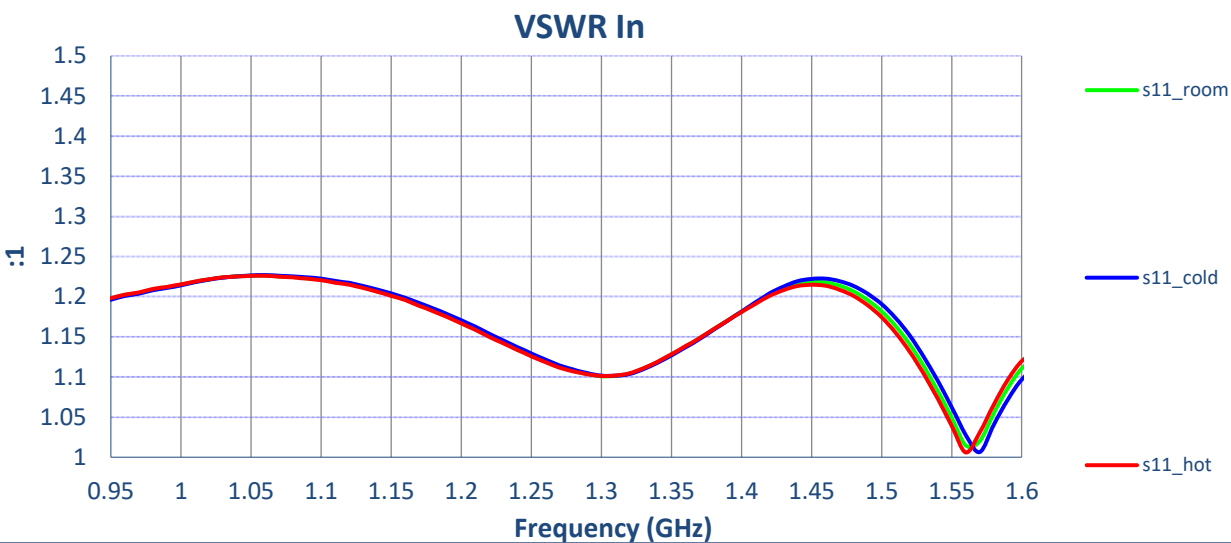
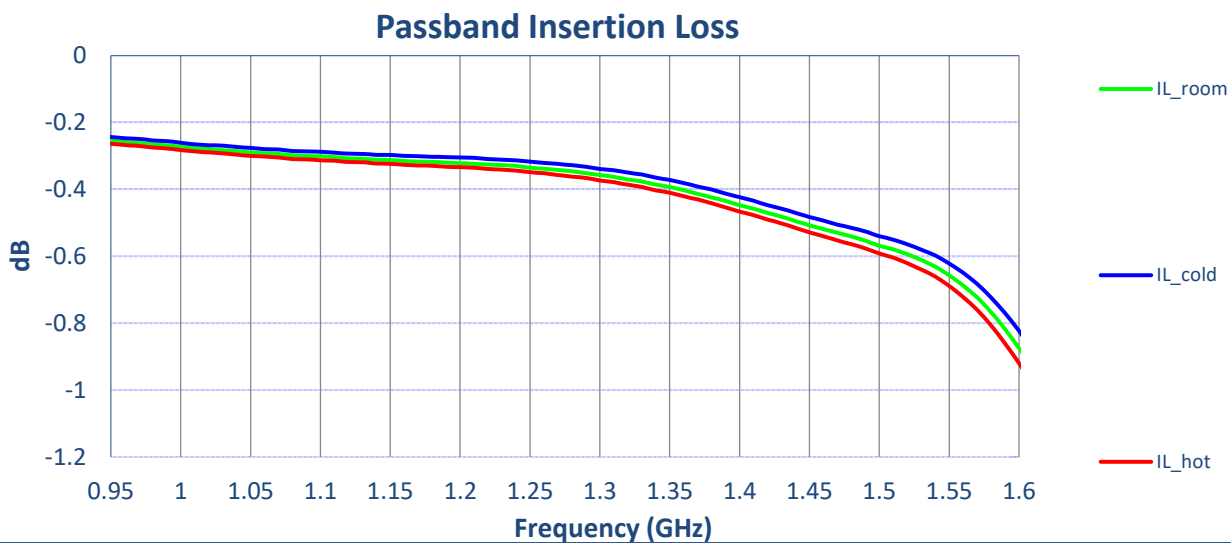
APPROVALS		DATE		TITLE	
DRAWN			11/1/23	PRODUCT FEATURE LPF-950M1R6G-SFF	
REDRAWN				REV. A	REV. A1
ISSUED				SCALE: N/S	SHEET 1 OF 1
				ITEM NO. 05XQ0	DWG NO. 27047560

**TYPICAL CHARACTERISTICS
ON
LPF-950M1R6G-SFF**

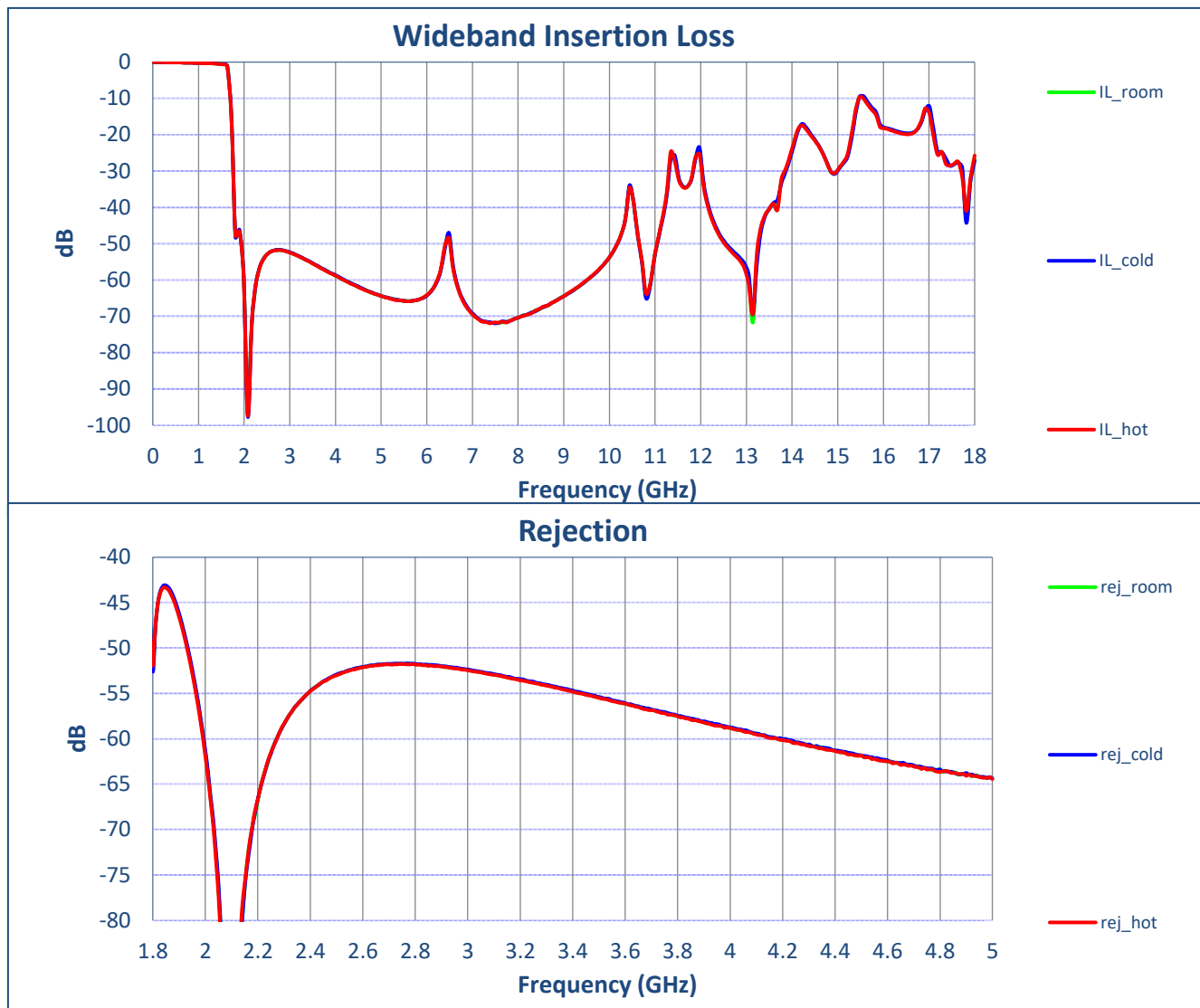
SUMMARY TEST DATA

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	0°C	70°C
1	Passband Frequency Range	0.95 GHz to 1.6 GHz	0.95 GHz to 1.6 GHz	0.95 GHz to 1.6 GHz	0.95 GHz to 1.6 GHz
2	Flatness	1.2 dB Max.	0.68 dB	0.68 dB	0.68 dB
3	Insertion Loss	1.2 dB Max.	0.94 dB	0.88 dB	0.99 dB
4	VSWR	1.5:1 Max.	1.23:1	1.23:1	1.23:1
5	Rejection	40 dBc Min., 1.8 to 5 GHz	42.3 dBc	42.2 dBc	42.4 dBc
6	Input Power	20 Watts CW Max	20 Watts CW	20 Watts CW	20 Watts CW

*ROOM series measured at 25C. COLD series measured at 0C. HOT series measured at 70C.



**TYPICAL CHARACTERISTICS
ON
LPF-950M1R6G-SFF**



*ROOM series measured at 25C. COLD series measured at 0C. HOT series measured at 70C.

Power Test Graph @ 1 GHz (20 Watts Max)

