

**TYPICAL CHARACTERISTICS  
ON  
BPF-3R55G-500M-SFF**

**THE MODEL BPF-3R55G-500M-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 3.550 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 1.9 dB AND A MAXIMUM VSWR OF 1.5:1. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.**



**Reported By  
M. Laulis  
8/13/2024**

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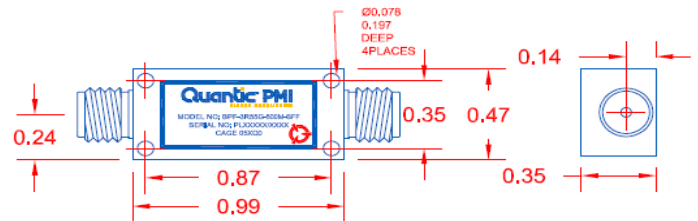
**TYPICAL CHARACTERISTICS  
ON  
BPF-3R55G-500M-SFF  
  
PRODUCT FEATURE**

**DESCRIPTION**

THE MODEL BPF-3R55G-500M-SFF IS A BAND PASS FILTER WITH A CENTER FREQUENCY OF 3,550 GHz. IT HAS A MAXIMUM INSERTION LOSS OF 1,9 dB AND A MAXIMUM VSWR OF 1,5:1. THIS MODEL IS OUTFITTED WITH SMA CONNECTORS.

**SPECIFICATIONS**

- FREQUENCY RANGE(3dB BANDWIDTH):—3.3 TO 3.8 GHz
- INSERTION LOSS @ 3,55 GHz: ————— 1.9 dB MAX
- PASS BAND RIPPLE:————— ± 0.5 dB TYP, ± 0.7 dB MAX
- VSWR:————— 1.5:1 MAX
- REJECTION @ 3,0 GHz: ————— 40 dBc MIN
- INPUT POWER:————— 1 WATT MAX
- IMPEDANCE:————— 50 OHMS
- CONNECTORS:————— SMA FEMALE
- FINISH:————— PAINTED BLUE



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	05/18/24	

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:————— -20°C TO +70°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:————— MIL-STD-202F, METHOD 103B COND. B
- SHOCK:————— MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:————— MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:————— MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:————— MIL-STD-202F, METHOD 107D COND. A

**PMI CONFIDENTIAL AND PROPRIETARY**

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>MDE</i>		05/18/24	OUTLINE BPF-3R55G-500M-SFF		
REDRAWN			SIZE	FCIM NO.	DWG NO.
			A	05XQ0	27048820
ISSUED			SCALE	N:S	SHEET 1 OF 1
					REV. A1

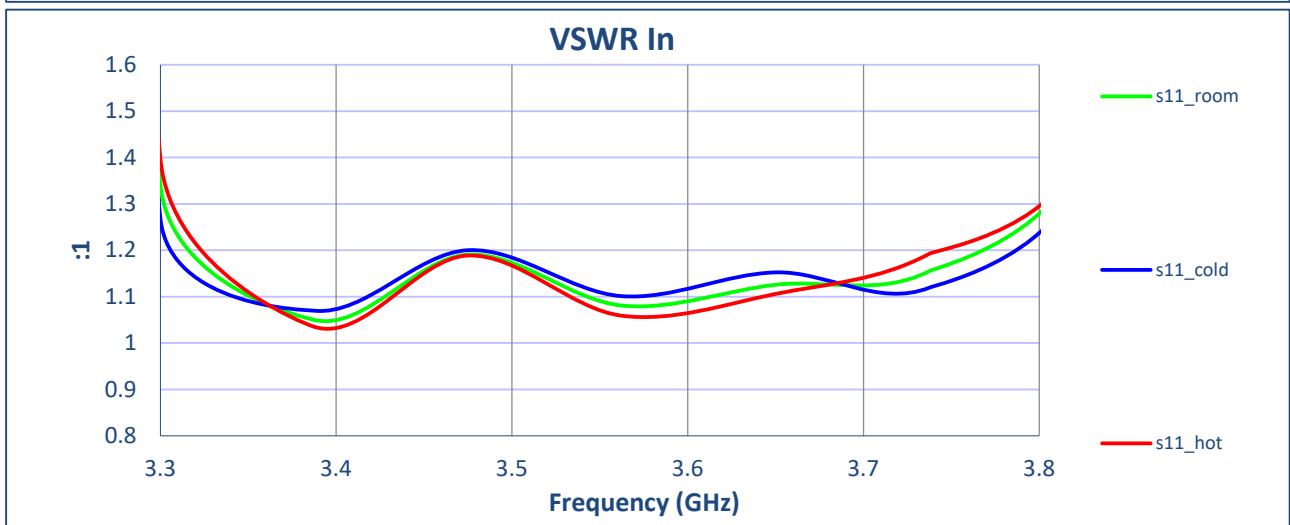
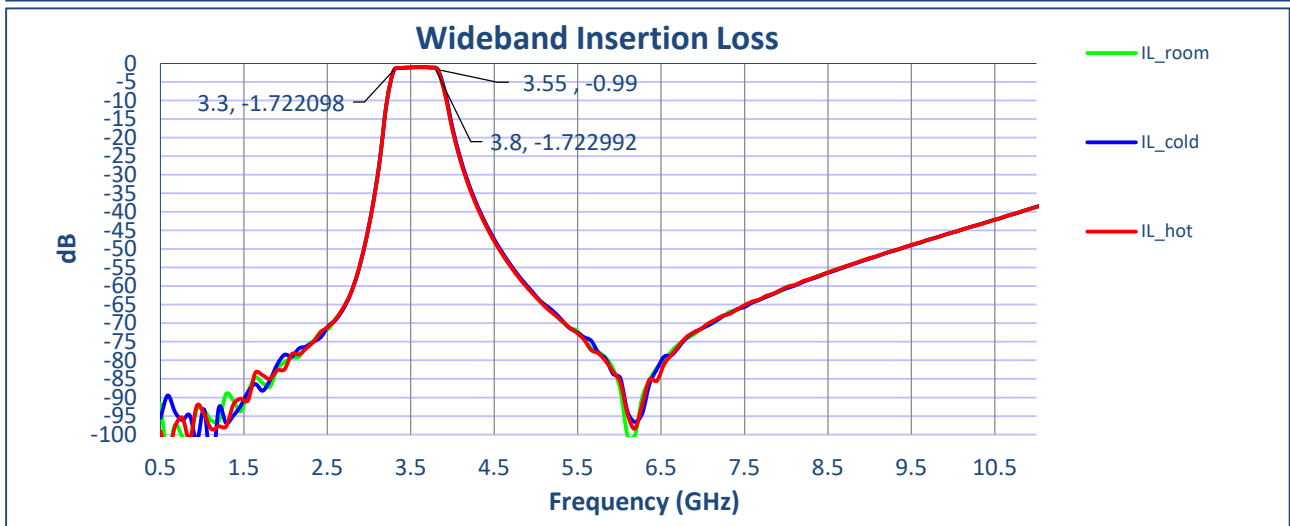
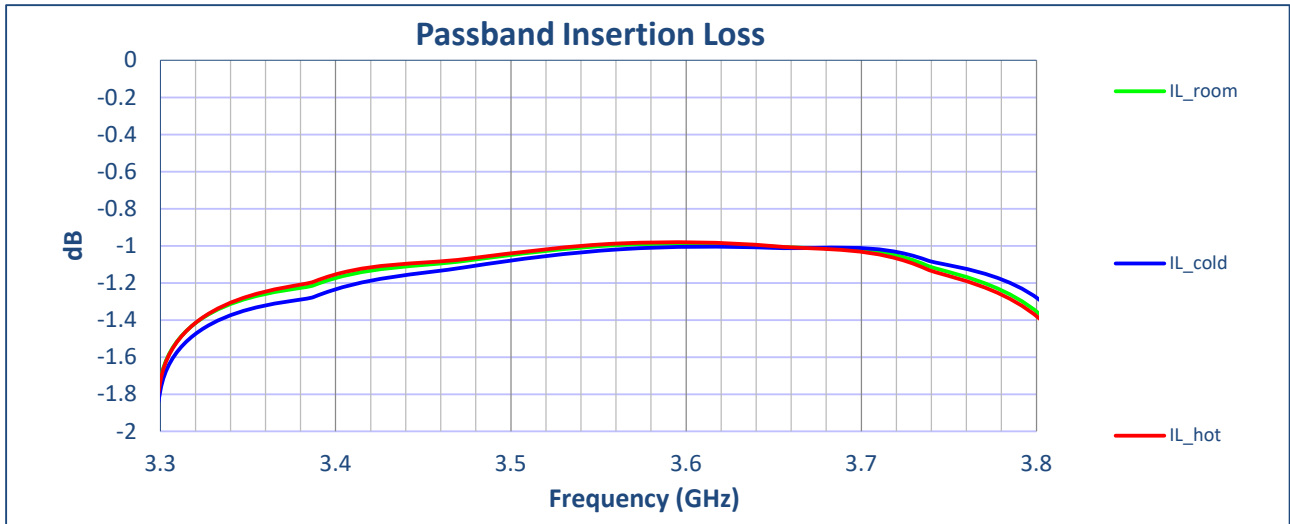
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**TEST DATA**

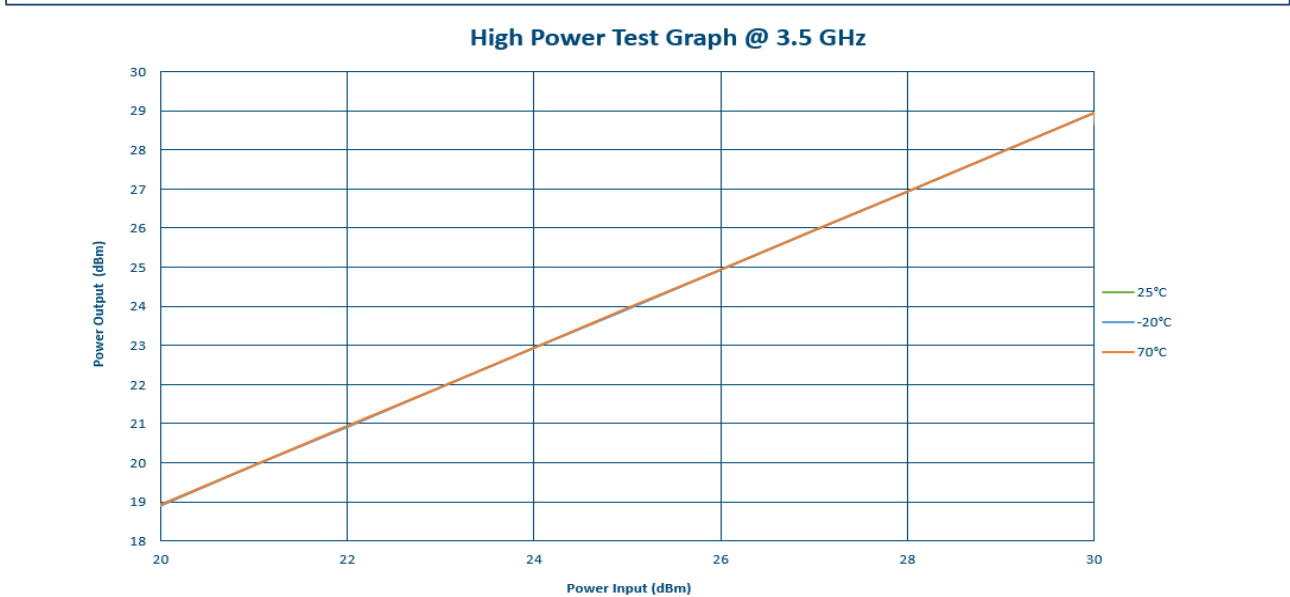
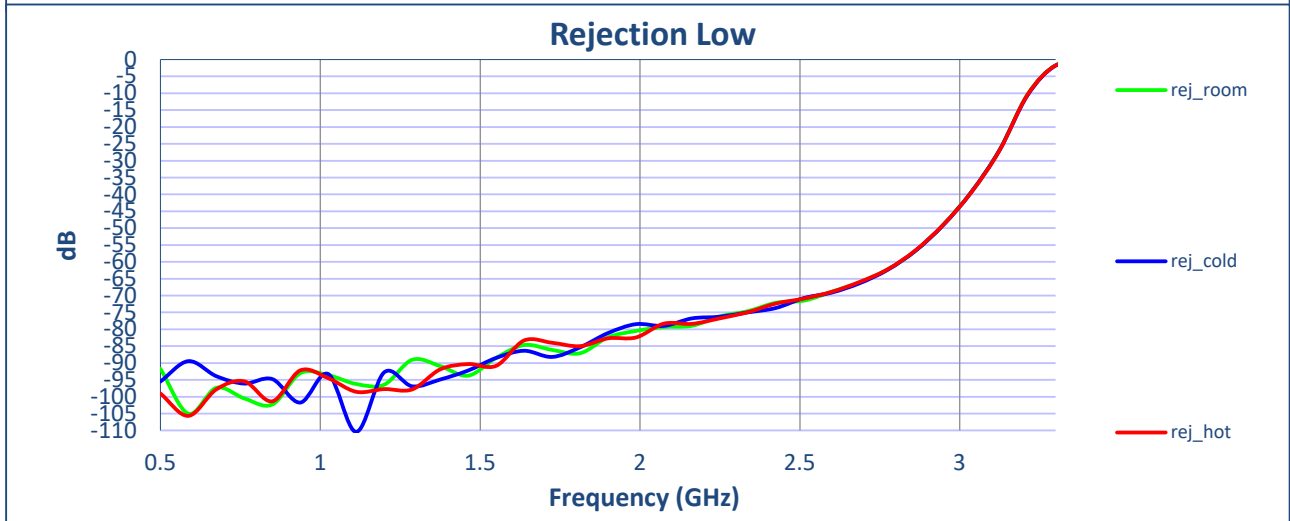
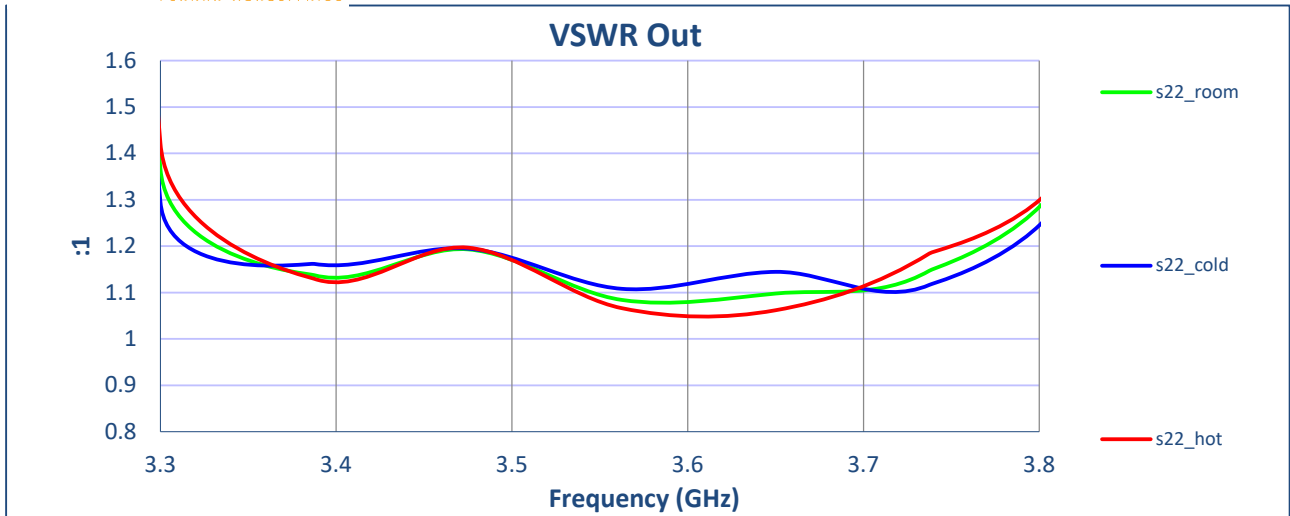
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	-20°C	70°C
1	Passband Frequency Range	3.3 GHz to 3.8 GHz	<b>3.3 GHz to 3.8 GHz</b>	<b>3.3 GHz to 3.8 GHz</b>	<b>3.3 GHz to 3.8 GHz</b>
2	Insertion Loss @3.55 GHz	1.9 dB Max.	<b>0.99 dB</b>	<b>1.01 dB</b>	<b>0.98 dB</b>
3	Passband Ripple	± 0.5 dB TYP ± 0.7 dB MAX	<b>±0.22 dB</b>	<b>±0.26 dB</b>	<b>±0.21 dB</b>
4	VSWR	1.5 dB Max.	<b>1.1:1</b>	<b>1.05:1</b>	<b>1.06:1</b>
5	Rejection	40 dBc Min., @ 3.0 GHz	<b>50 dBc</b>	<b>45 dBc</b>	<b>48 dBc</b>
6	Input Power	1 Watts MAX	<b>1 W</b>	<b>1 W</b>	<b>1 W</b>

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