

PMI MODEL NO. CL6250-830-CD-SFF IS A BAND PASS FILTER. THE VSWR IS 1.5:1  
MAXIMUM AND THIS UNIT IS OUTFITTED WITH SMA FEMALE CONNECTORS.



**REPORTED BY** Kevin C  
**AUTHOR** Matt L  
**DATE** 9/26/2024

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**TYPICAL CHARACTERISTICS  
ON  
CL6250-830-CD-SFF  
PRODUCT FEATURE**

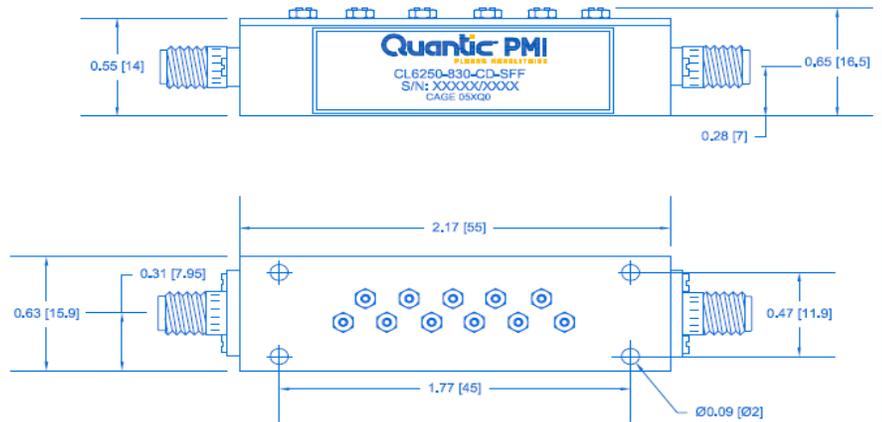
**DESCRIPTION**

PMI MODEL NO. CL6250-830-CD-SFF IS A BAND PASS FILTER, THE VSWR IS 1.5:1 MAXIMUM AND THIS UNIT IS OUTFITTED WITH SMA FEMALE CONNECTORS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	07/16/24	

**SPECIFICATIONS**

- CENTER FREQUENCY: 6.25 GHz
- BANDWIDTH (3dB): 830MHZ±40 MHz
- INSERTION LOSS @ FC: 0.8 dB MAX
- VSWR (FC ± 200 MHz): 1.5:1 MAX
- GROUP DELAY: 3ns MAX (Fc ± 200 MHz)  
8ns MAX (Fc ± 415 MHz)
- REJECTION @ DC-3.8 GHz: 60 dBc MIN
- REJECTION @ 8-12 GHz: 60 dBc MIN
- INPUT POWER: 5 W MAX
- CONNECTORS: SMA FEMALE
- FINISH: PAINTED BLUE



**PMI CONFIDENTIAL AND PROPRIETARY**

**ENVIRONMENTAL RATINGS**

- TEMPERATURE: +10 °C TO +70 °C (OPERATING)  
-50 °C TO +90 °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

7309-A GROVE ROAD  
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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
MDE		07/16/24	OUTLINE CL6250-830-CD-SFF		
DRAWN			SIZE	PSDM NO.	DWG NO.
REDRAWN			A	05XQ0	27049200
ISSUED			SCALE	N:1	SHEET 1 OF 1
					REV. A1

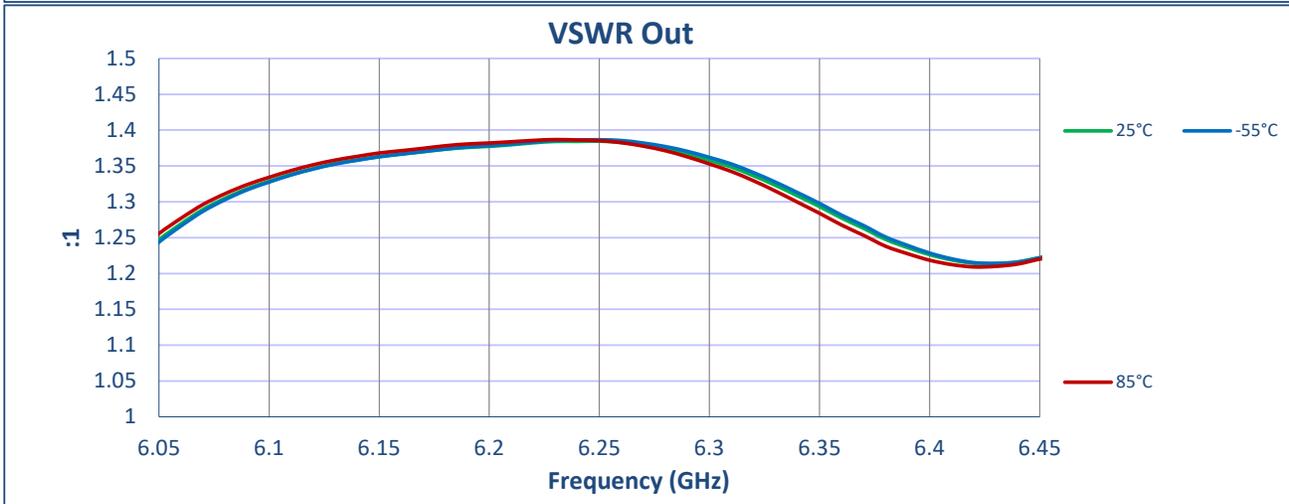
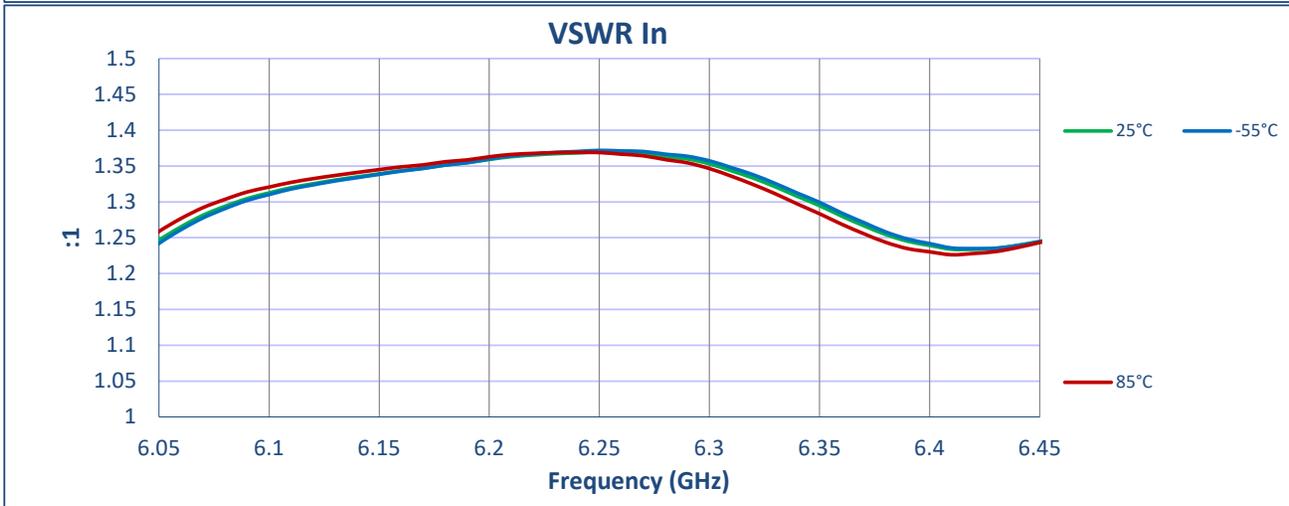
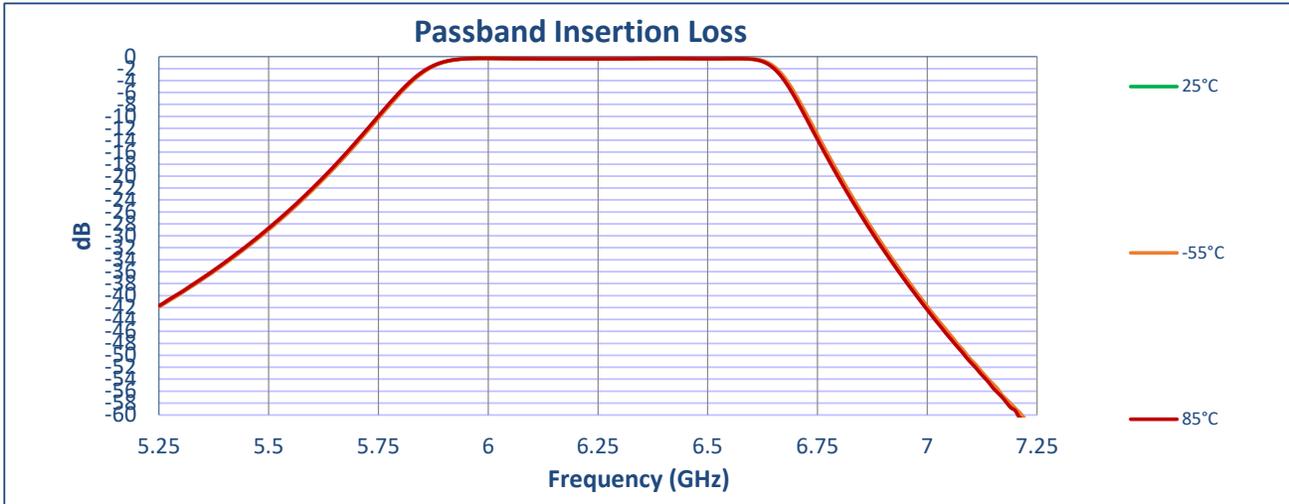
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**TEST DATA**

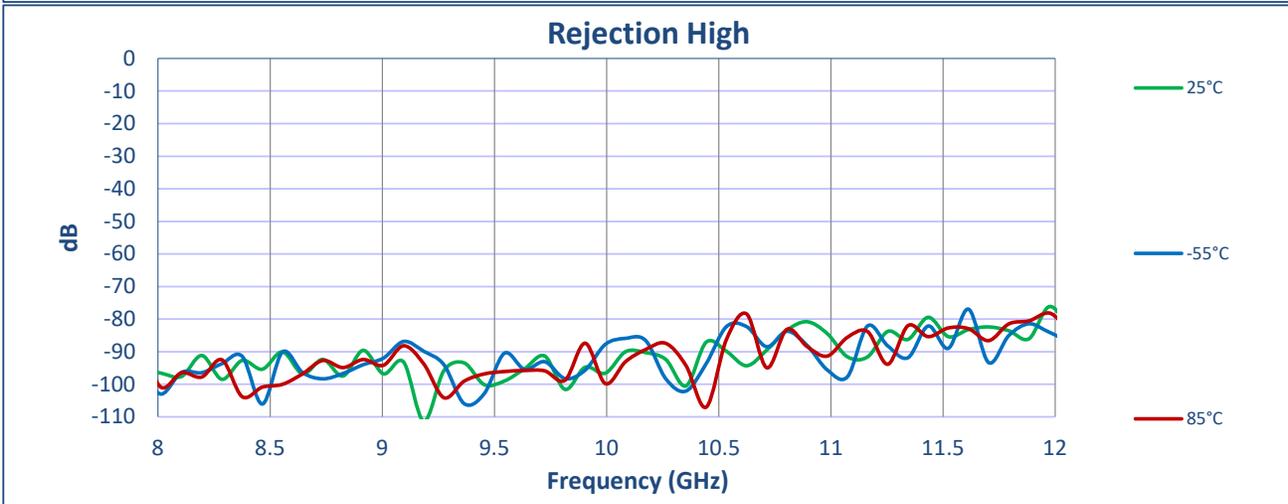
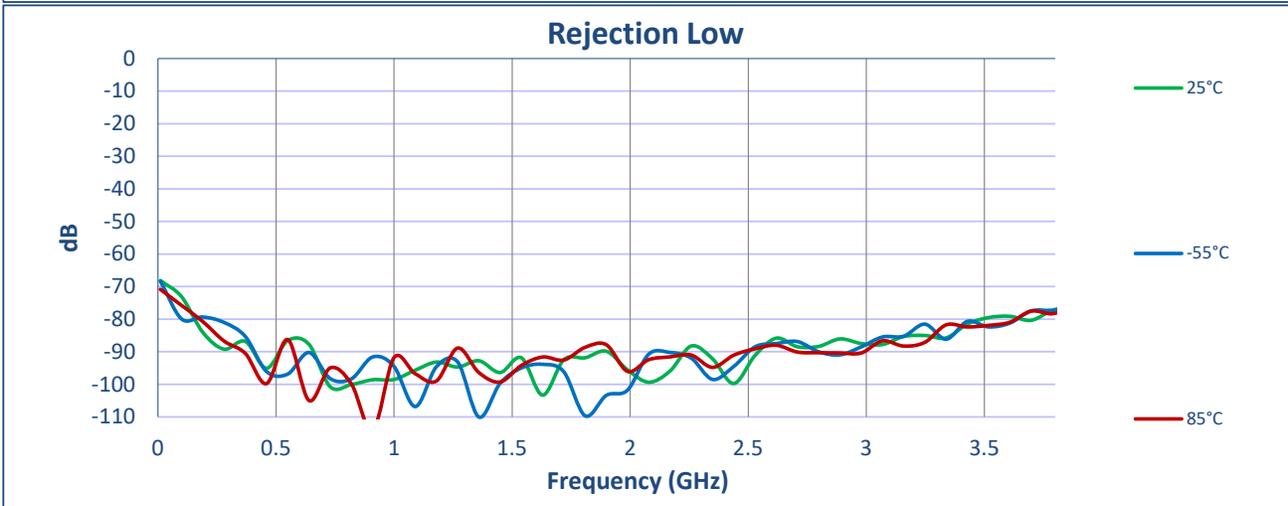
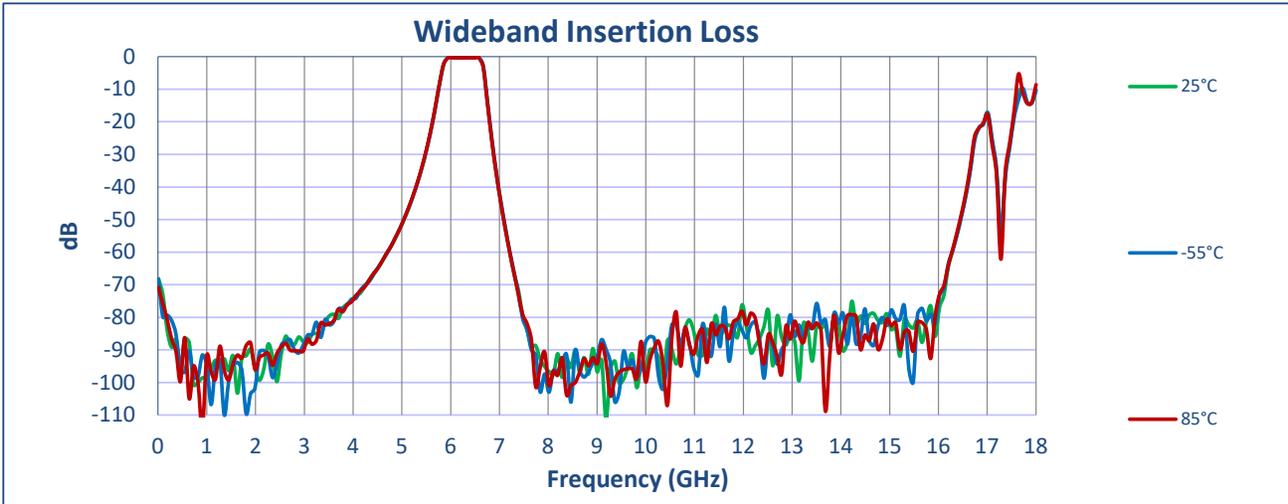
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			25°C	+10°C	70°C
1	Center Frequency	6.25 GHz	6.25 GHz		
2	3dB Bandwidth	830 MHz ± 40 MHz.	850 MHz	850 MHz	840 MHz
3	VSWR	1.5:1 Max.	1.38:1	1.39:1	1.39:1
4	Group Delay	3 ns MAX (Fc ± 200 MHz) 8 ns MAX (Fc ± 415 MHz)	2 ns 4 ns	2 ns 4 ns	2 ns 4 ns
5	Insertion Loss (Center Frequency)	0.8 dB Max.	-0.35 dB	-0.3 dB	-0.4 dB
6	Rejection	-60 dB Min. @ DC to 3.8 GHz	-68.1 dB	-68.3 dB	-70.8 dB
7	Rejection	-60 dB Min. @ 8 to 12 GHz	-76.2 dB	-77 dB	-78.1 dB
8	Input Power	5 W Max	5 W	5 W	5 W

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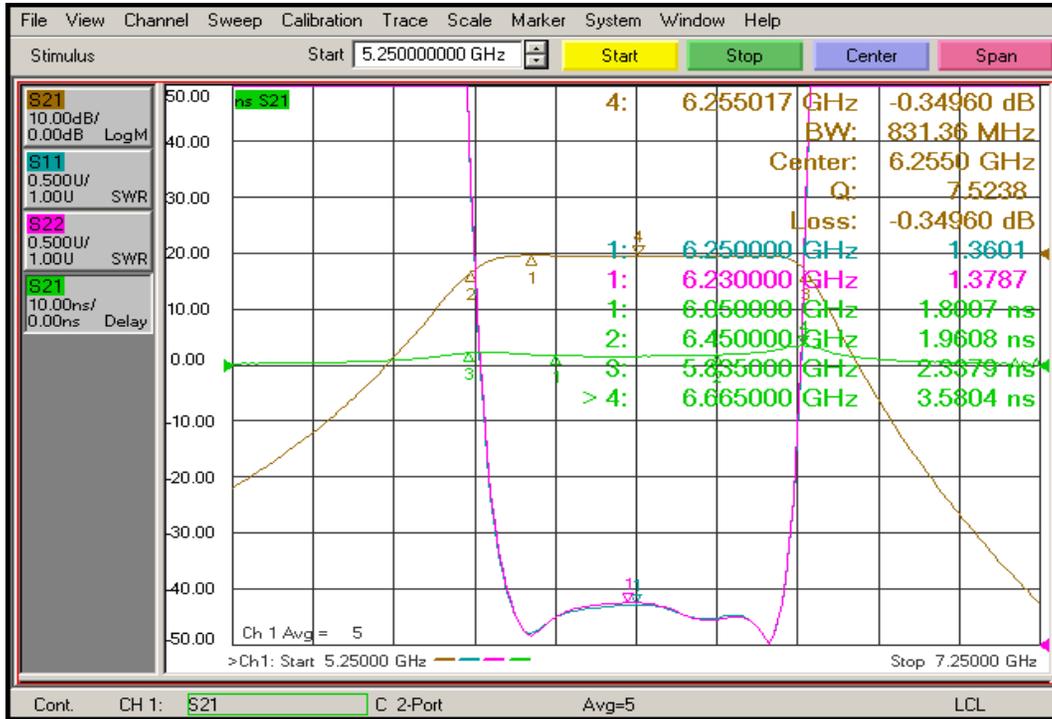
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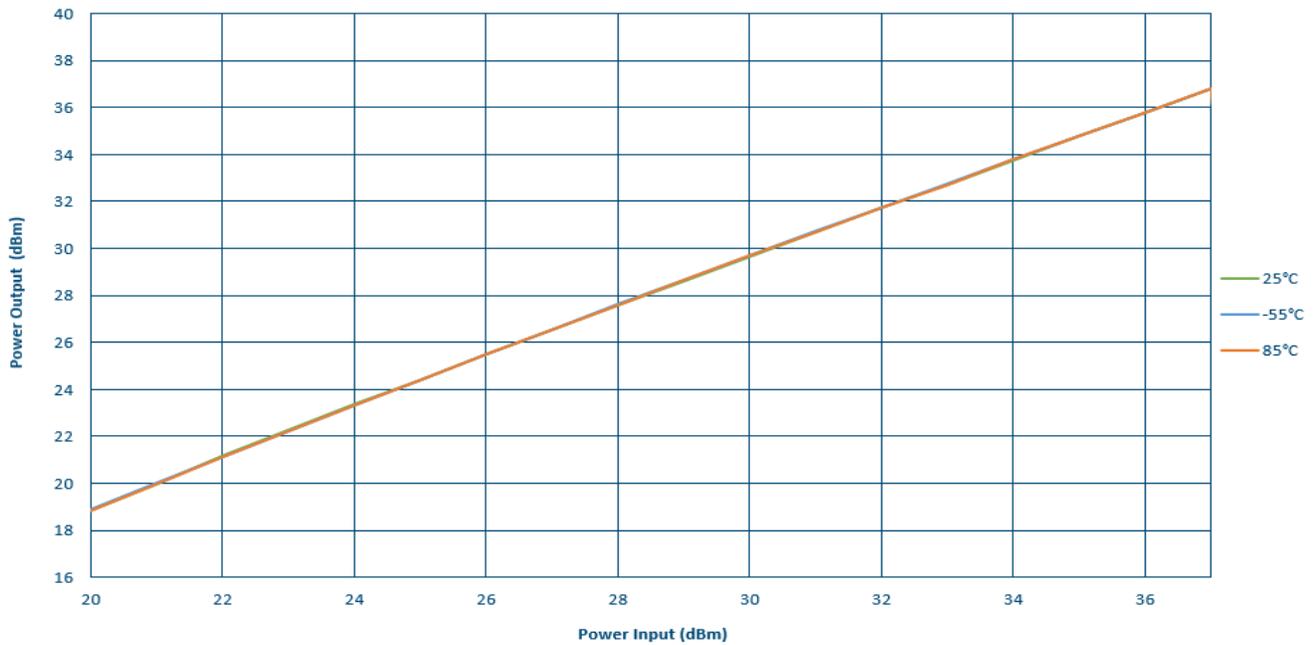
**TYPICAL CHARACTERISTICS  
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**Group Delay**



**INPUT POWER**

**High Power Test Graph @ 6 GHz**



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