TYPICAL CHARACTERISTICS
ON
JTIDS-0001-SFM

PMI MODEL NUMBER JTIDS-0001-SFM IS A JTIDS-BAND NOTCH FILTER WITH 40-dB REJECTION OVER 250-MHz NOTCH BAND. ITS INPUT AND OUTPUT CONNECTORS ARE SMA FEMALE AND SMA MALE.

11/29/2023

Designed and Reported By: M. Laulis

Tested By:

H.Gonzales

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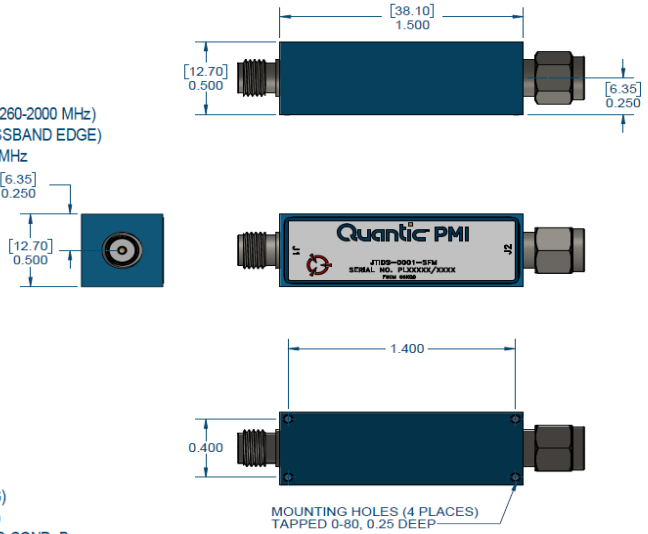
OUTLINE

DESCRIPTION:

PMI MODEL: JTIDS-0001-SFM IS AN ULTRA SMALL BAND REJECT FILTER CENTERED AT 1085 MHz. THIS FILTER REJECTS FROM 960 TO 1210 MHz AND WAS SPECIFICALLY DESIGNED FOR MILITARY JTIDS APPLICATIONS.

SPECIFICATIONS:

- CENTER FREQUENCY:..... 1085 MHz
- NOTCHED BANDWIDTH:..... 250 MHz
- PASSBAND INSERTION LOSS:..... 6.0 dB MAX (DC - 910 MHz, 1260-2000 MHz)
- PASSBAND VSWR:..... 2.0:1 TYP (3.5:1 MAX AT PASSBAND EDGE)
- REJECTION:..... -40 dBC MIN @ 960 TO 1210 MHz
- CONNECTORS:..... SMA FEMALE (J1)
  SMA MALE (J2)
- SIZE:..... 1.5" x 0.5" x 0.5"
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
  -40°C TO +100°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

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/27/2023	

PMI CONFIDENTIAL AND PROPRIETARY

Quantic PMI
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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN: M.LAULIS	5/27/2023
REDRAWN	
ISSUED	

TITLE: OUTLINE
JTIDS-0001-SFM

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27046040	A1

SCALE 2:1 SHEET 1 OF 1

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TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE			REMARKS QA/QC
			+25°C	-40°C	+85°C	
1	Center Frequency	1085 MHz	**1085 MHz**			
2	Notched Bandwidth	250 MHz	**250 MHz**			
3	Passband Insertion Loss	6.0 dB MAX (DC - 910 MHz, 1260 - 2000 MHz)	**3.97 dB (DC to 910 MHz)**	**4.13 dB (DC to 910 MHz)**	**4.95 dB (DC to 910 MHz)**	
			4.18 dB (1260 to 2000 MHz)	**4.56 dB (1260 to 2000 MHz)**	**4.77 dB (1260 to 2000 MHz)**	
			See Graph			
4	Passband VSWR	2.0:1 TYP 3.5:1 MAX AT PASSBAND EDGES	**2.09 :1 See Graph**	**2.1 :1 See Graph**	**2.07 :1 See Graph**	
5	Rejection	40 dBC MIN @ 960 to 1210 MHz	**42.2 dBC See Graph**	**44.02 dBC See Graph**	**41.12 dBC See Graph**	

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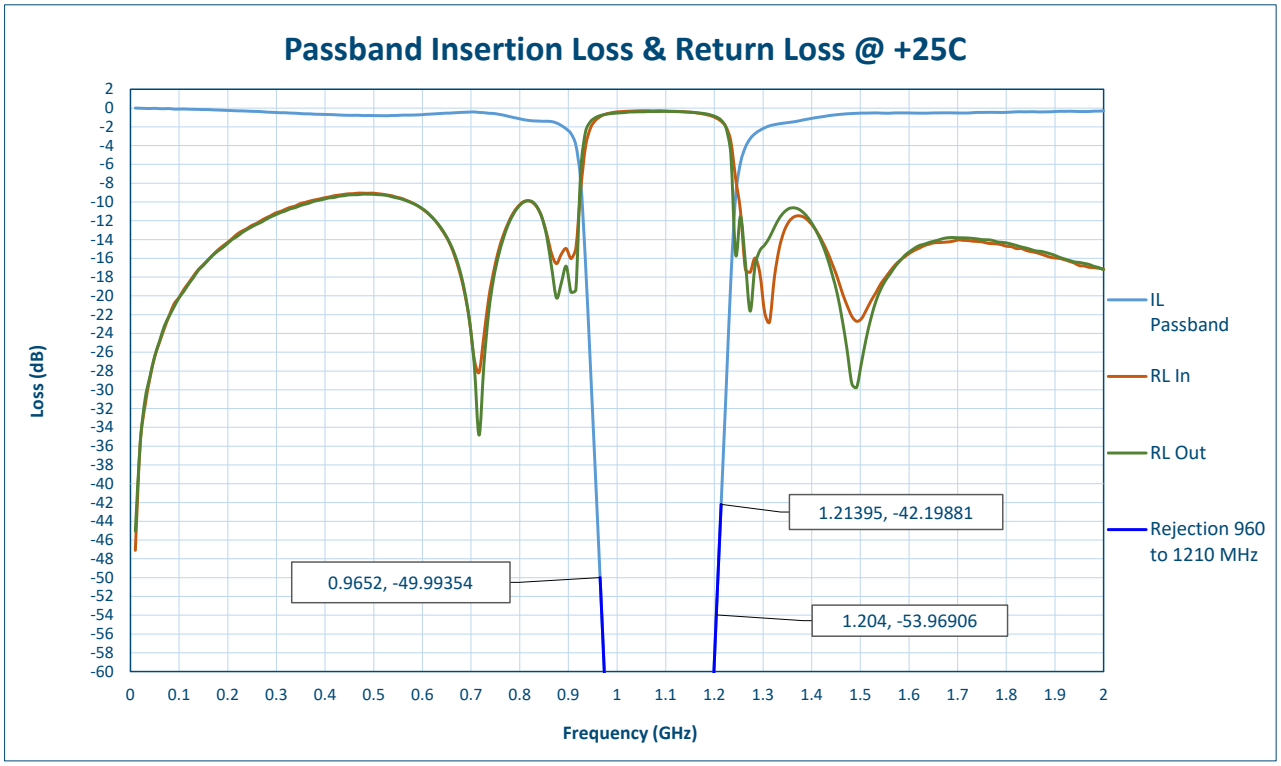

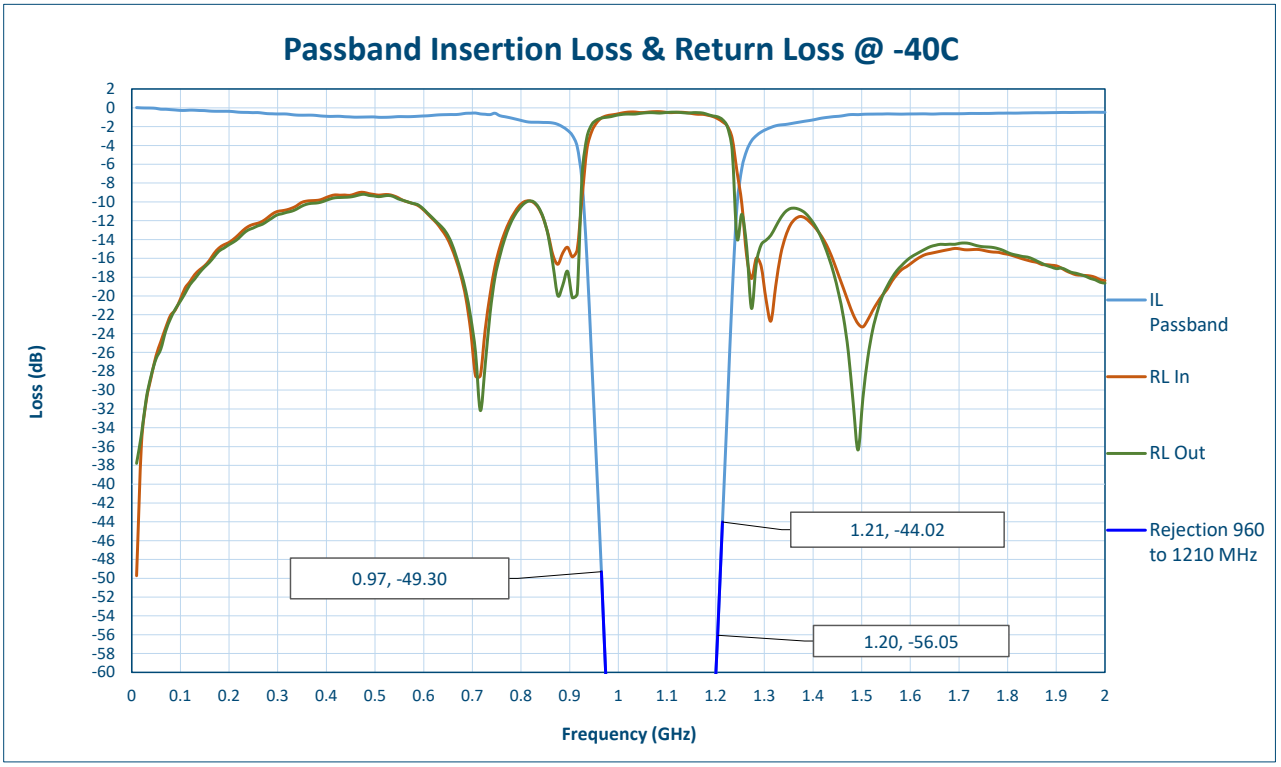

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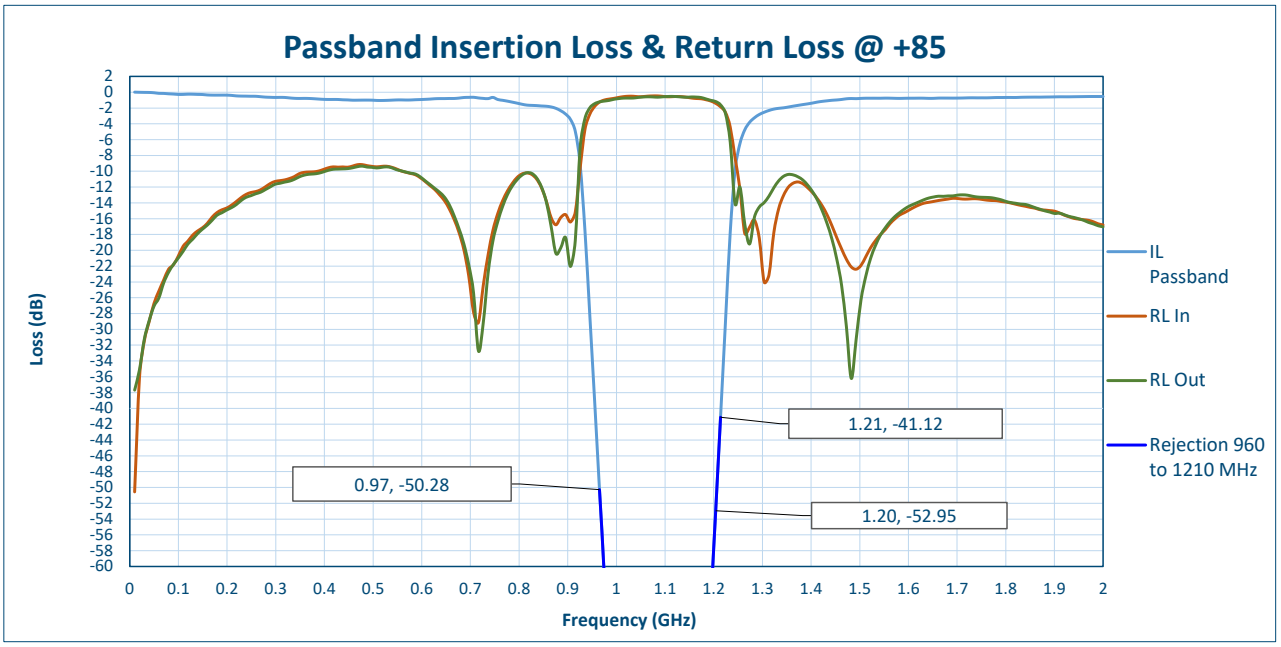

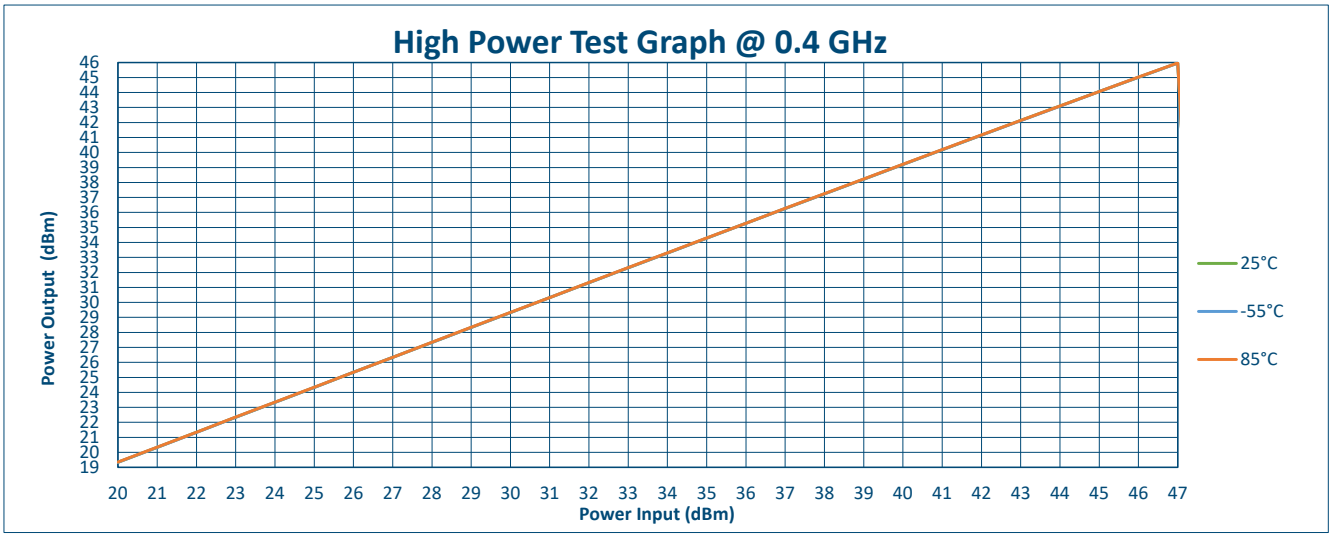

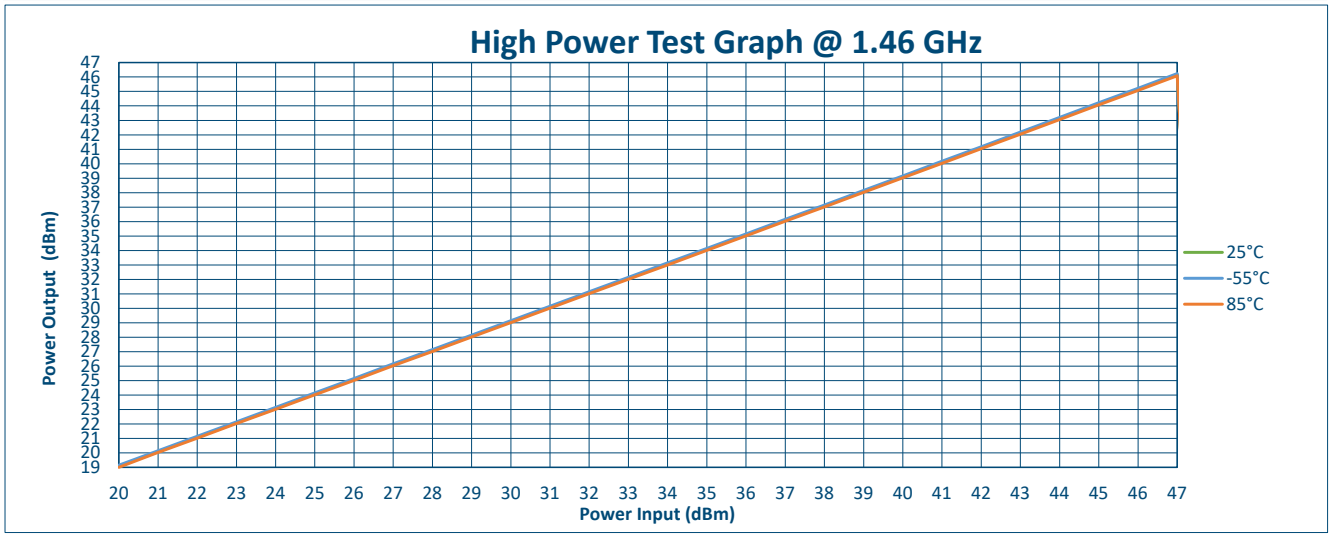

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