TYPICAL CHARACTERISTICS
ON
JTIDS-0001

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

Designed and Reported By: M. Laulis

Date: 12/12/2025

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OUTLINE

DESCRIPTION:
PMI MODEL: JTIDS-0001 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.

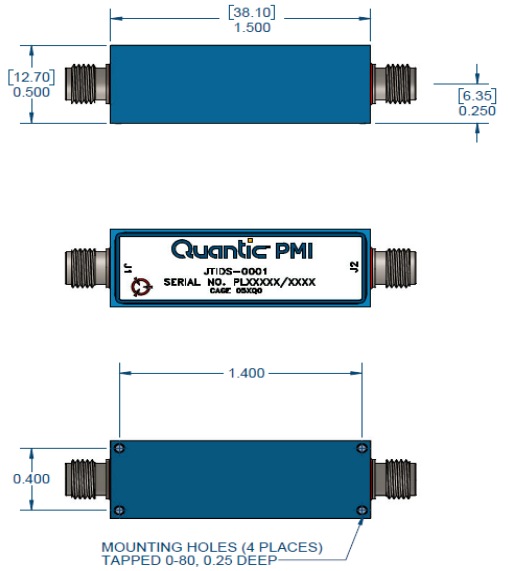
SPECIFICATIONS:

- 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)
- RFINPUT POWER: 50 W CW
- REJECTION: -40 dBC MIN @ 960 TO 1210 MHz
- CONNECTORS: SMA FEMALE
- 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	8/4/2020	

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: M.LAULIS	8/4/2020
REDRAWN	
ISSUED	

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ISO 9001 CERTIFIED

TITLE: OUTLINE
JTIDS-0001

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27052740	A1

SCALE 2:1 SHEET 1 OF 1

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TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE		
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)	**3.68 dB (DC to 910 MHz)**	**3.57 dB (DC to 910 MHz)**	**3.91 dB (DC to 910 MHz)**
			4.56 dB (1260 to 2000 MHz)	**4.41 dB (1260 to 2000 MHz)**	**4.7 dB (1260 to 2000 MHz)**
			See Graph		
4	Passband VSWR	2.0:1 TYP 3.5:1 MAX AT PASSBAND EDGES	**2.38:1 MAX 3.1:1 @ Edge See Graph**	**2.39:1 MAX 3.12:1 @ Edge See Graph**	**2.41:1 MAX 3.09:1 @ Edge See Graph**
5	Rejection	40 dBC MIN @ 960 to 1210 MHz	**53.43 dBC See Graph**	**53.89 dBC See Graph**	**53.43 dBC See Graph**

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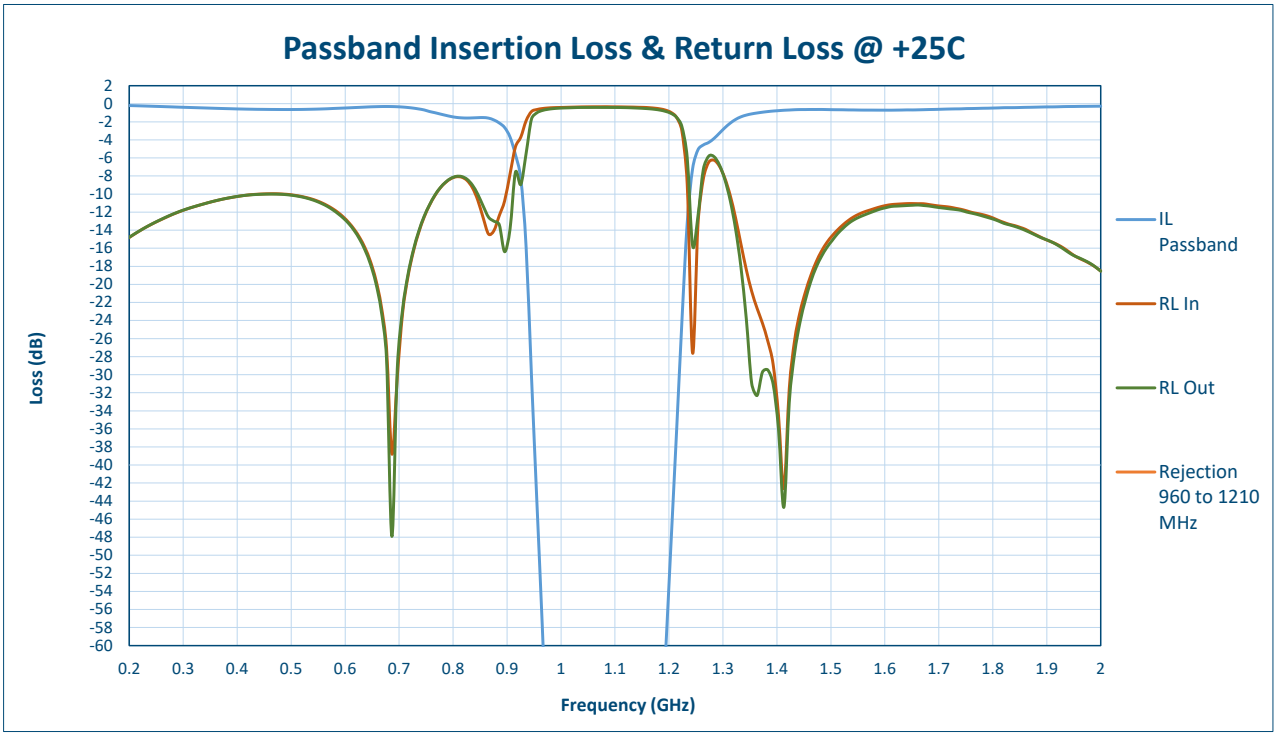

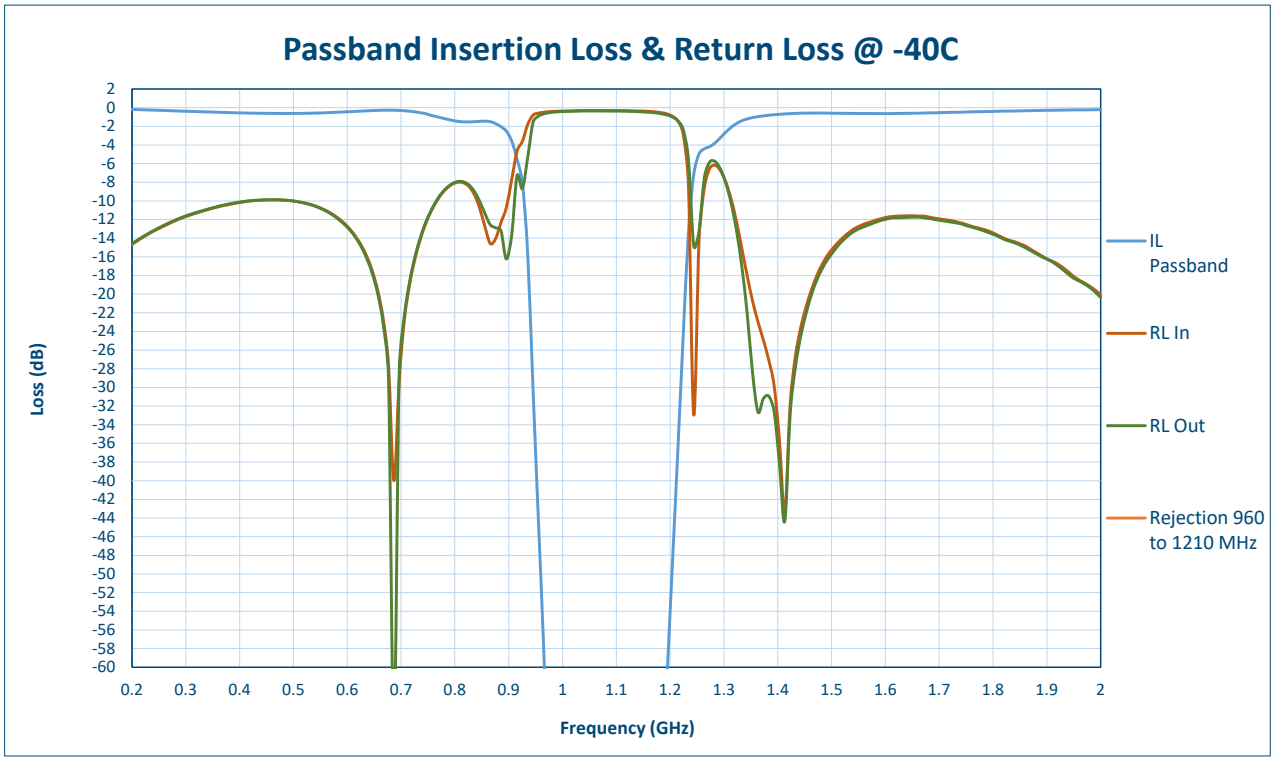

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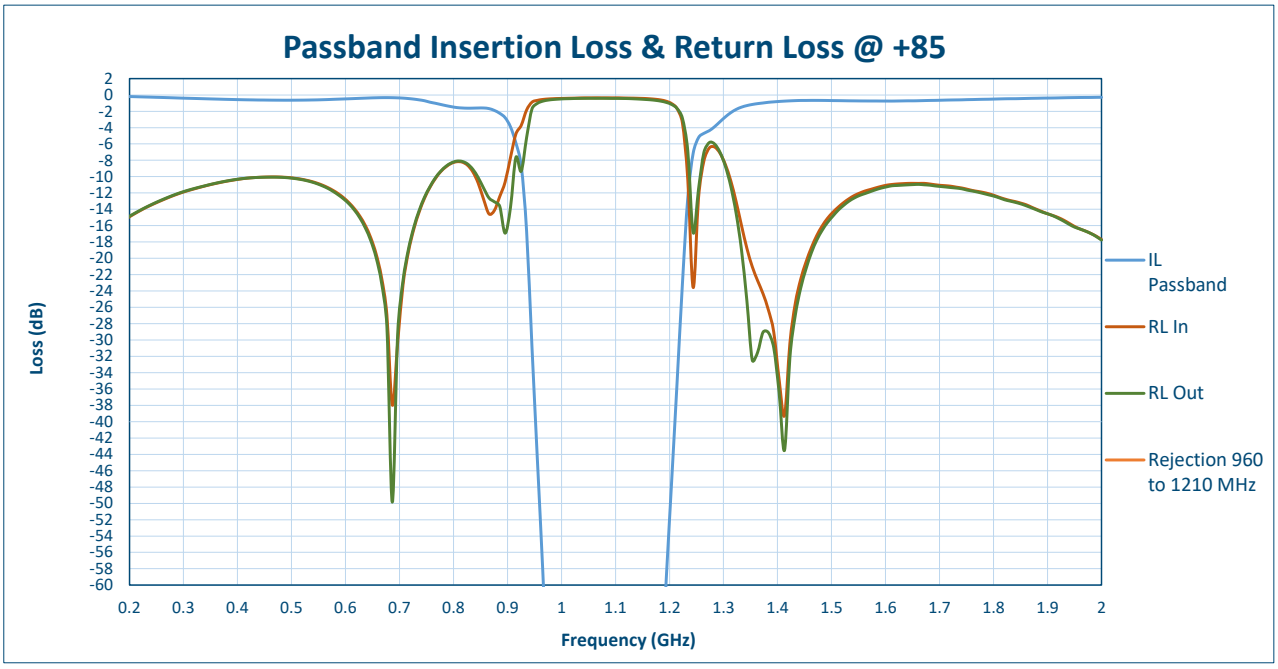

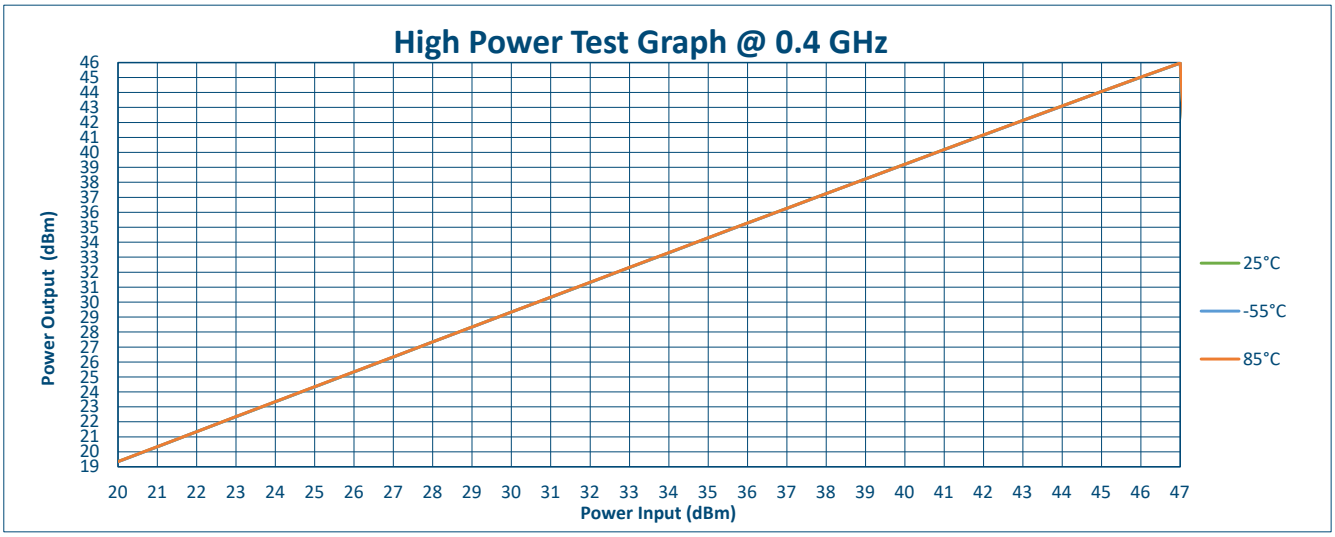

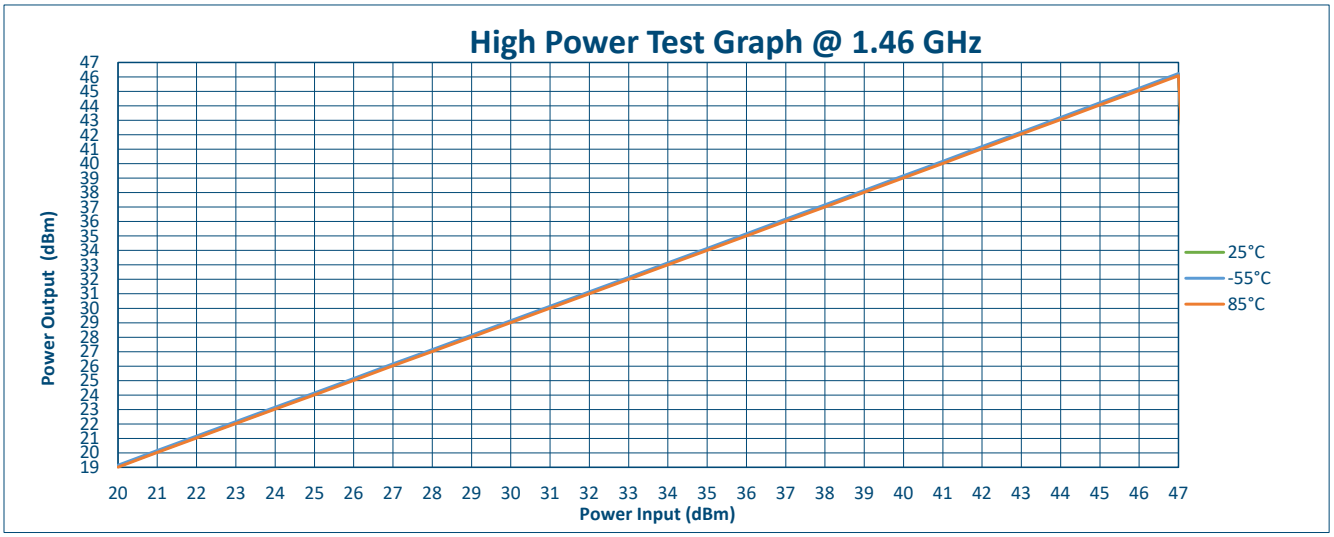

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