

**TYPICAL CHARACTERISTICS  
ON  
JTIDS-0002**

**PMI MODEL: JTIDS-0002 IS AN ULTRA SMALL BAND REJECT FILTER CENTERED AT 1090 MHz. THIS FILTER REJECTS FROM 960 TO 1220 MHz AND WAS SPECIFICALLY DESIGNED FOR MILITARY JTIDS APPLICATIONS.**



**Designed and Reported By: M. Laulis**

**Date: 1/6/2026**

# TYPICAL CHARACTERISTICS ON JTIDS-0002

## OUTLINE

**DESCRIPTION:**

PMI MODEL: JTIDS-0002 IS A BAND REJECT FILTER CENTERED AT 1090 MHz. THIS FILTER REJECTS FREQUENCIES FROM 960 TO 1220 MHz AND WAS SPECIFICALLY DESIGNED FOR MILITARY JTIDS APPLICATIONS. PACKAGE SIZE IS 1.5" X 0.5" X 0.5" WITH SMA FEMALE CONNECTORS.

**SPECIFICATIONS:**

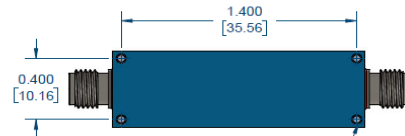
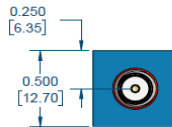
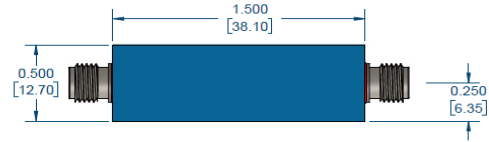
- CENTER FREQUENCY:..... 1090 MHz
- NOTCHED BANDWIDTH:..... 260 MHz (960 to 1220 MHz)
- PASSBAND INSERTION LOSS:..... 6.0 dB MAX (DC - 910 MHz, 1270-2400 MHz)
- PASSBAND VSWR:..... 2.0:1 TYP
- REJECTION:..... 40 dBc MIN @ 960 TO 1220 MHz
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

**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	01/09/00	



PMI CONFIDENTIAL AND PROPRIETARY

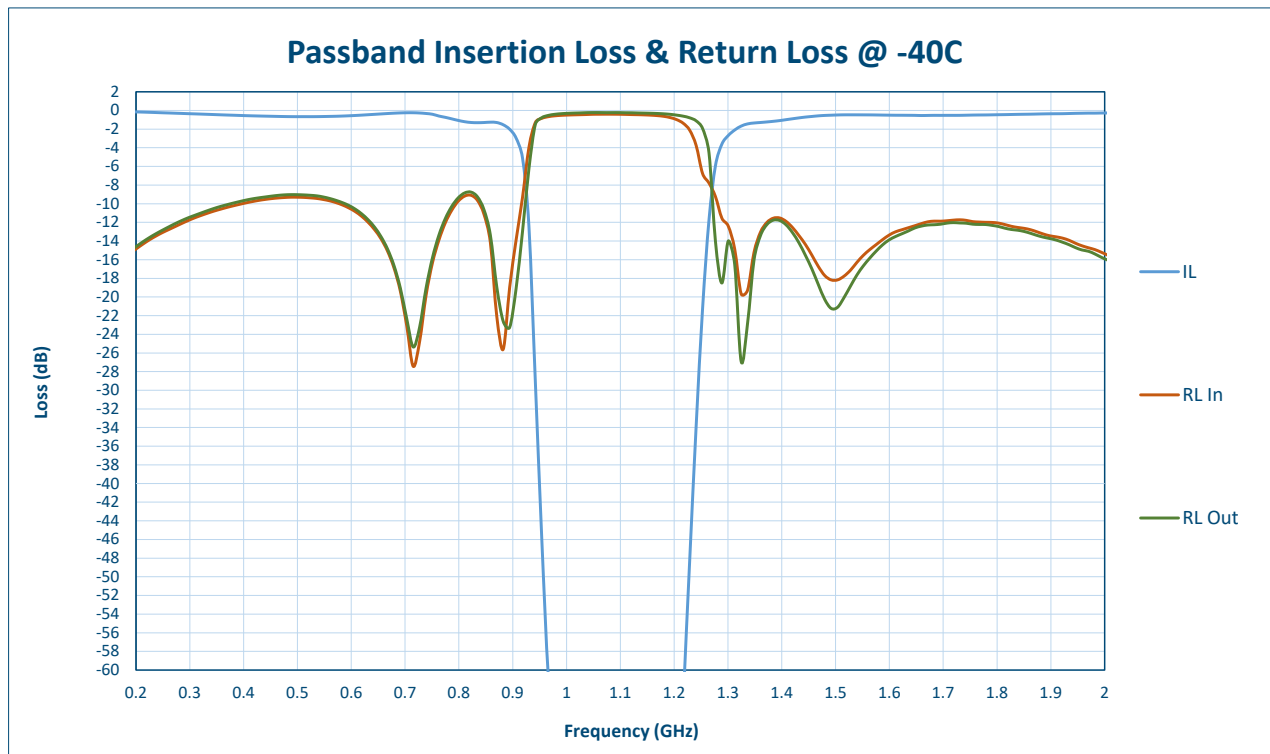
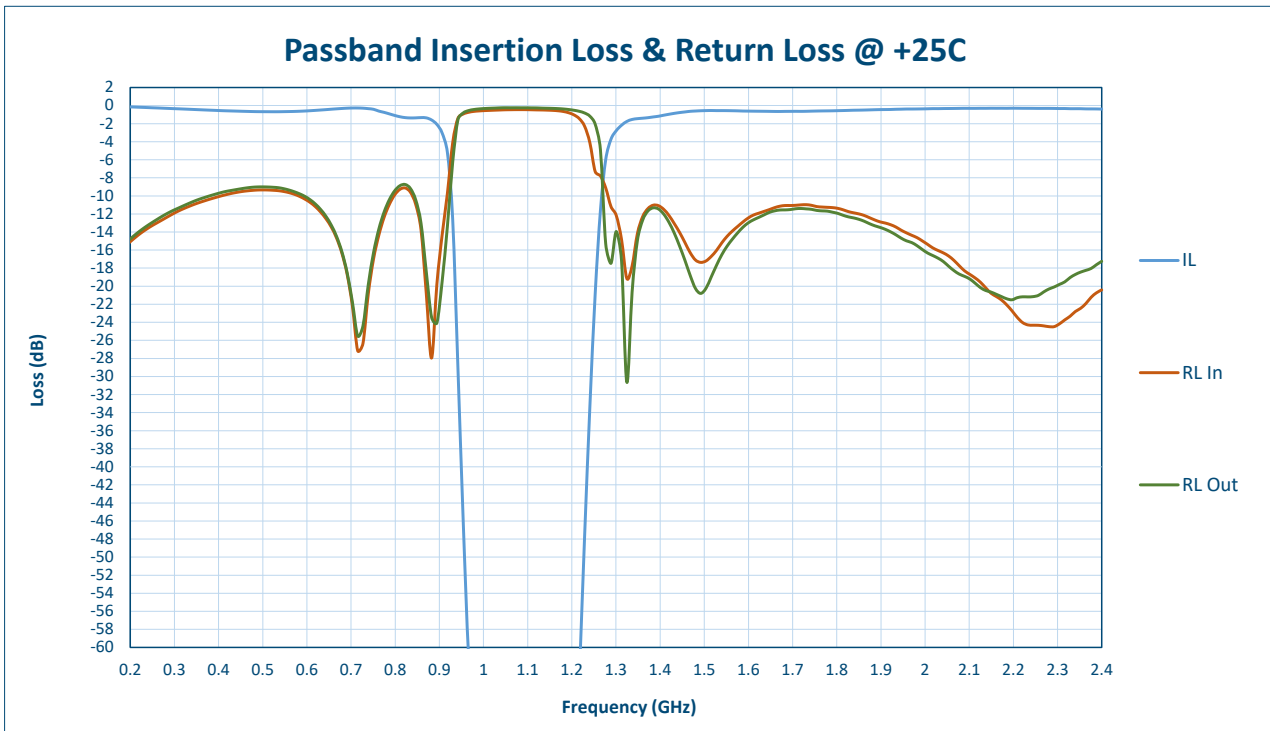
APPROVALS		DATE	TITLE	
DRAWN	M LAULIS	01/09/00	OUTLINE	
DESIGNED			JTIDS-0002	
SCALE	B	05/00	DWG NO.	27055180
			REV	A1
			SCALE	2:1
				SHEET 1 OF 1

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**TEST SPECIFICATIONS**

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE		
			+25°	-40°	+85°
1	Center Frequency	1090 MHz	1090 MHz	1090 MHz	1090 MHz
2	Notched Bandwidth	260 MHz	260 MHz	260 MHz	260 MHz
3	Passband Insertion Loss	6.0 dB MAX (DC - 910 MHz, 1270 - 2400 MHz)	3.04 dB (DC to 910 MHz)	2.96 dB (DC to 910 MHz)	3.14 dB (DC to 910 MHz)
			5.99 dB (1270 to 2400 MHz)	5.93 dB (1270 to 2400 MHz)	5.91 dB (1270 to 2400 MHz)
			See Graph		
4	Passband VSWR	2.0:1 TYP 3.5:1 MAX AT PASSBAND EDGES	1.76:1 MAX 2.15:1 @ Edge See Graph	1.72:1 MAX 2.15:1 @ Edge See Graph	1.74:1 MAX 2.12:1 @ Edge See Graph
5	Rejection	40 dBC MIN @ 960 to 1220 MHz	54.8 dBC See Graph	54.58 dBC See Graph	54.77 dBC See Graph

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