

**SUMMARY TEST DATA  
ON  
QSM-LP-7500-SFF**

**PMI MODEL NUMBER QSM-LP-7500-SFF IS A LOW PASS FILTER WITH SMA FEMALE CONNECTORS.**



**DESIGNED BY  
PMI ENGINEERING**

**TESTED & REPORTED BY  
R. SIRK**

**DATE  
September 6, 2024**

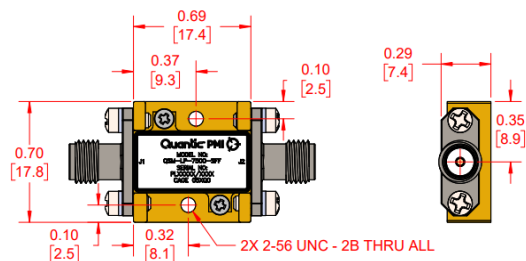
**OUTLINE**

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/23/2014	
	B1	ECN # 25-0061	9/17/2024	

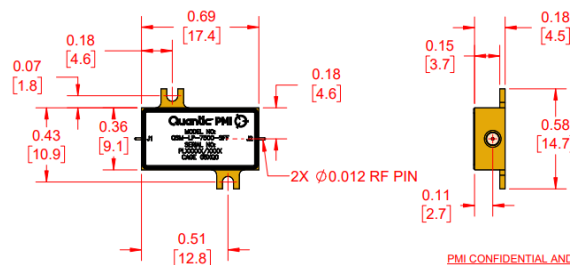
**DESCRIPTION:**  
PMI MODEL NUMBER QSM-LP-7500-SFF IS A LOWPASS FILTER WITH SMA FEMALE CONNECTORS IN AND OUT.

- SPECIFICATIONS:**
- FREQUENCY RANGE:..... DC TO 14.0 GHz
  - PASSBAND:..... DC TO 7.5 GHz
  - 3 dB CUTOFF:..... 8.0 GHz MIN
  - VSWR (PASSBAND):..... 2.0:1 MAX
  - INSERTION LOSS (PASSBAND):..... 3 dB MAX
  - REJECTION AT 9.5 to 14 GHz:..... -35 dBc MIN
  - CONNECTORS:..... SMA FEMALE CONNECTORS
  - FINISH:..... GOLD PLATED

**HOUSING WITH CARRIER**



**HOUSING WITHOUT CARRIER (SURFACE MOUNT)**



- ENVIRONMENTAL RATINGS:**
- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°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
  - TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D

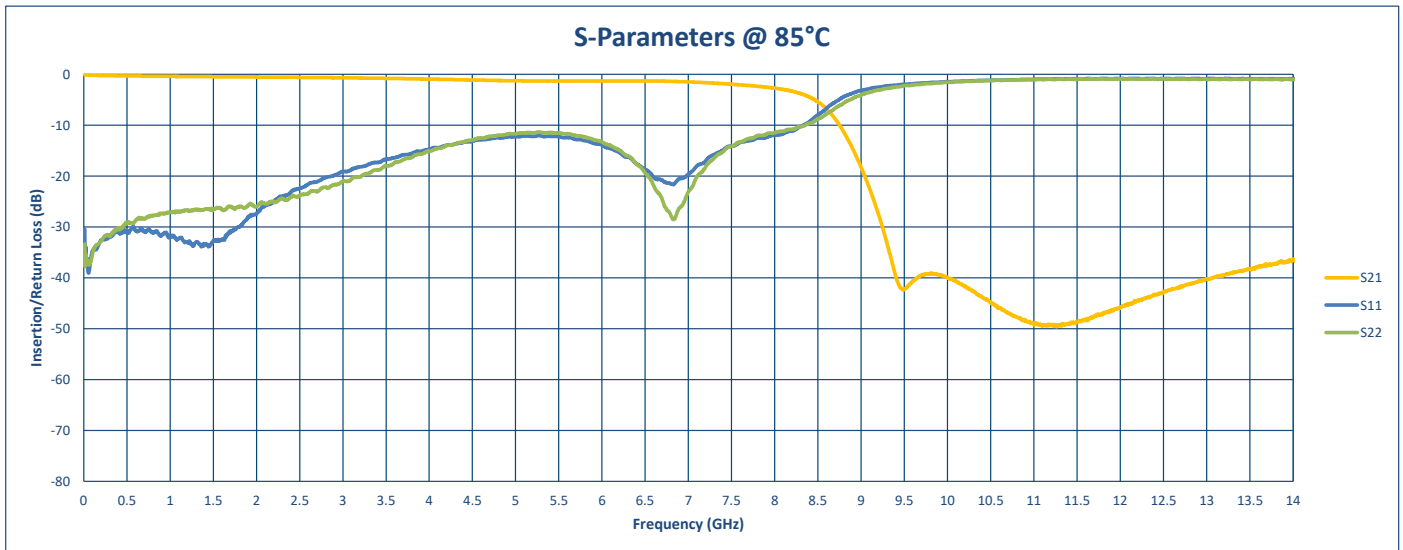
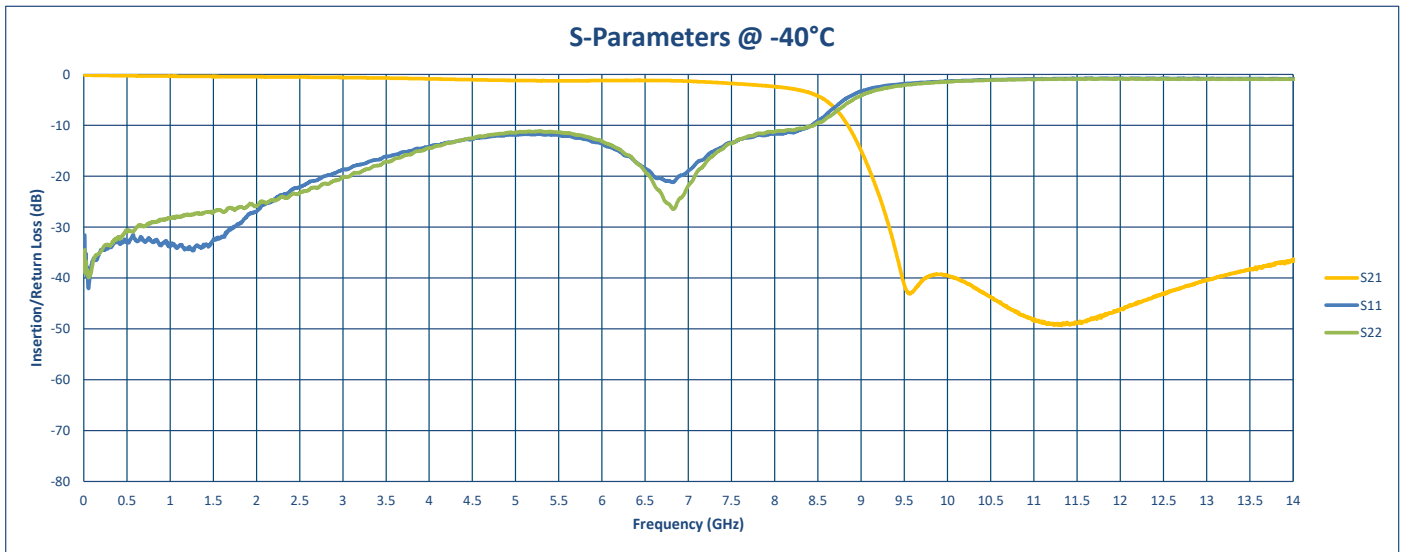
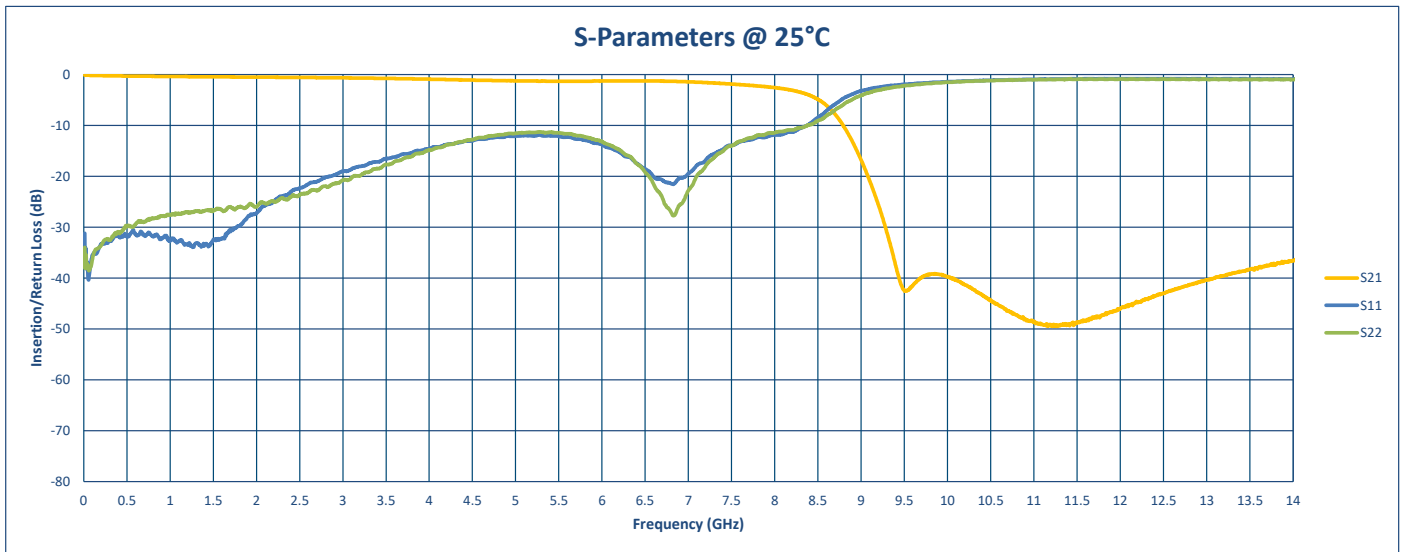
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

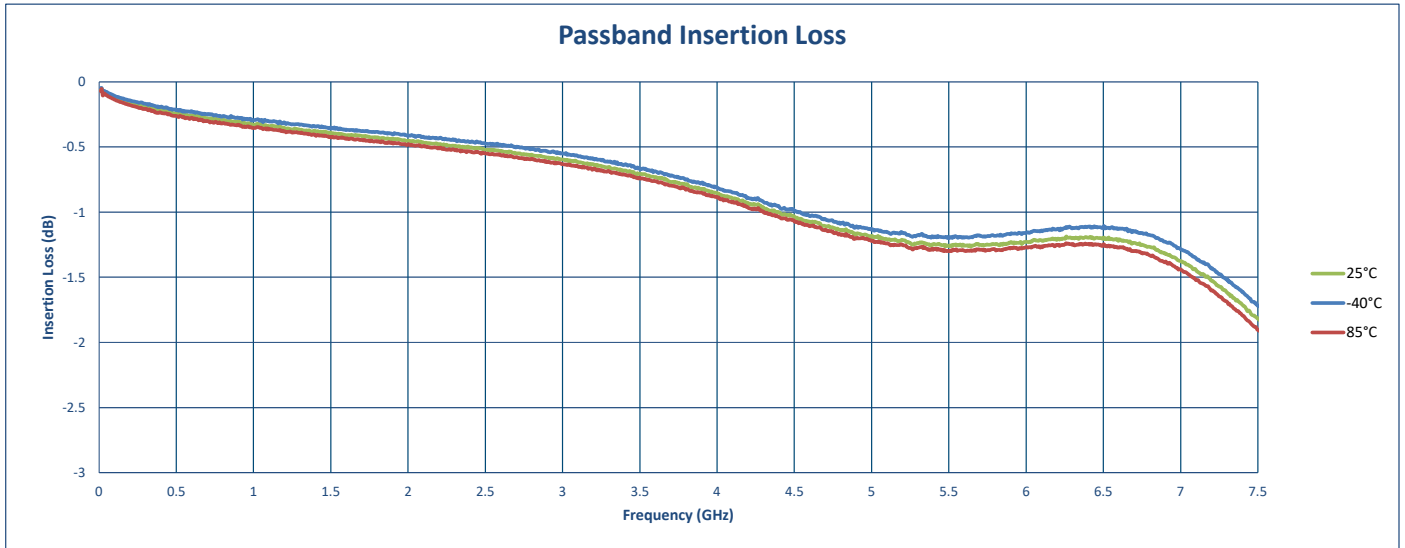
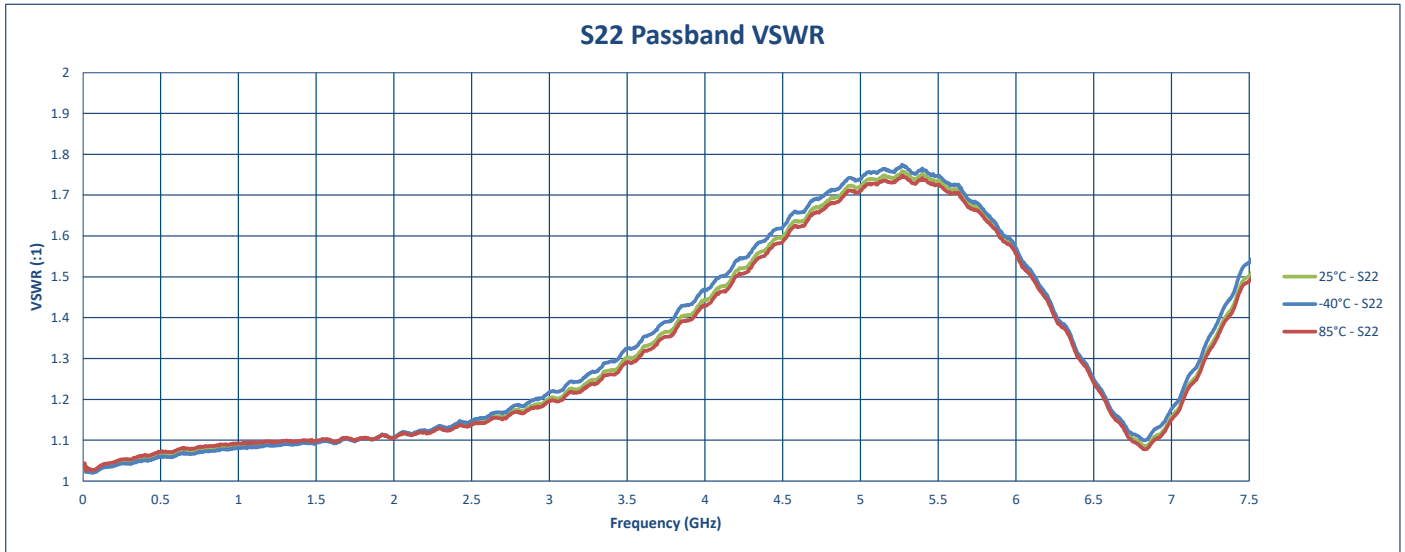
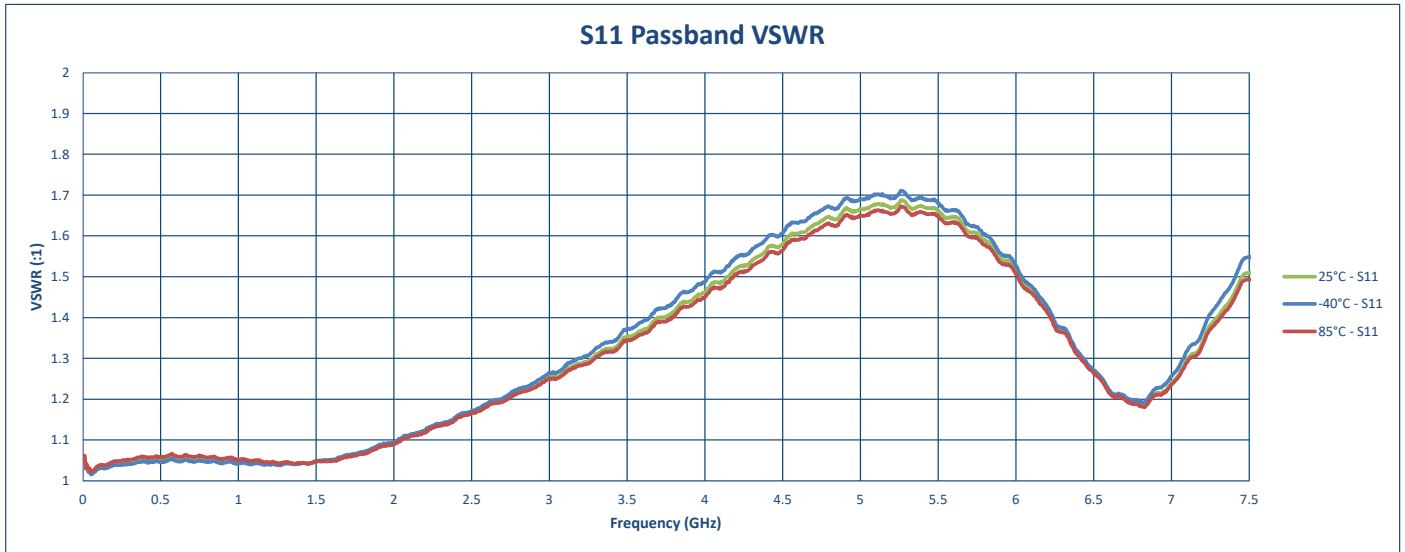
PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE
DRAWN	R. SIRK	7/23/2014	OUTLINE
DESIGNED			
SIZE	7500	DWG NO.	27049400
BY	B. J. OSXQD		B1
SCALE	2:1		SHEET 1 OF 1

**SUMMARY TEST DATA  
ON  
QSM-LP-7500-SFF**

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+85°C
1	Frequency Range:	DC to 14 GHz	DC to 14 GHz		
2	Passband:	DC to 7.5 GHz	DC to 7.5 GHz		
3	3 dB Cutoff:	8000 MHz MIN	8133 MHz	8202 MHz	8283 MHz
4	VSWR: (Passband)	2.0:1 MAX	1.75:1 (See Plot)	1.76:1 (See Plot)	1.77:1 (See Plot)
5	Insertion Loss: (Passband)	3 dB MAX	1.9 dB (See Plot)	1.82 dB (See Plot)	1.72 dB (See Plot)
6	Rejection @ 9.5 to 14 GHz	-35 dBc MIN	-36.3 dBc (See Plot)	-36.5 dBc (See Plot)	-36.6 dBc (See Plot)





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