

**SUMMARY TEST DATA
ON
QSM-LP-1800-SFF**

PMI MODEL NUMBER QSM-LP-1800-SFF IS A LOW PASS FILTER WITH SMA FEMALE CONNECTORS.



**DESIGNED BY
PMI ENGINEERING**

**REPORTED BY
R. SIRK**

**TESTED BY
E. KRETZ**

**DATE
February 18, 2024**

SUMMARY TEST DATA ON QSM-LP-1800-SFF

OUTLINE

DESCRIPTION:

PMI MODEL NUMBER QSM-LP-1800-SFF IS A LOWPASS FILTER WITH SMA FEMALE CONNECTORS IN AND OUT.

SPECIFICATIONS:

- FREQUENCY RANGE:.....DC TO 6.0 GHz
- PASSBAND:.....DC TO 1.8 GHz
- 3 dB CUTOFF:.....1.8 GHz MIN
- VSWR (PASSBAND):.....2.0:1 MAX
- INSERTION LOSS (PASSBAND):.....3 dB MAX
- REJECTION AT 6 GHz:.....-40 dBc MIN
- CONNECTORS:.....SMA FEMALE CONNECTORS
- FINISH:.....GOLD PLATED

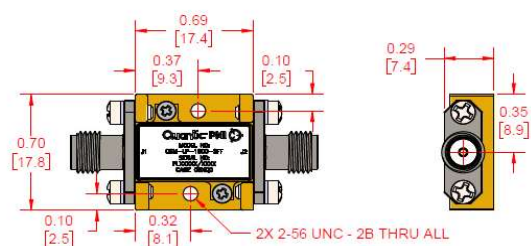
ENVIRONMENTAL RATINGS:

- 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

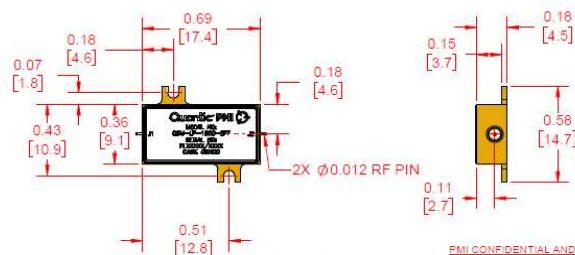
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

CON#	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/10/2011	
	B1	ECN # 25-0081	11/10/2011	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



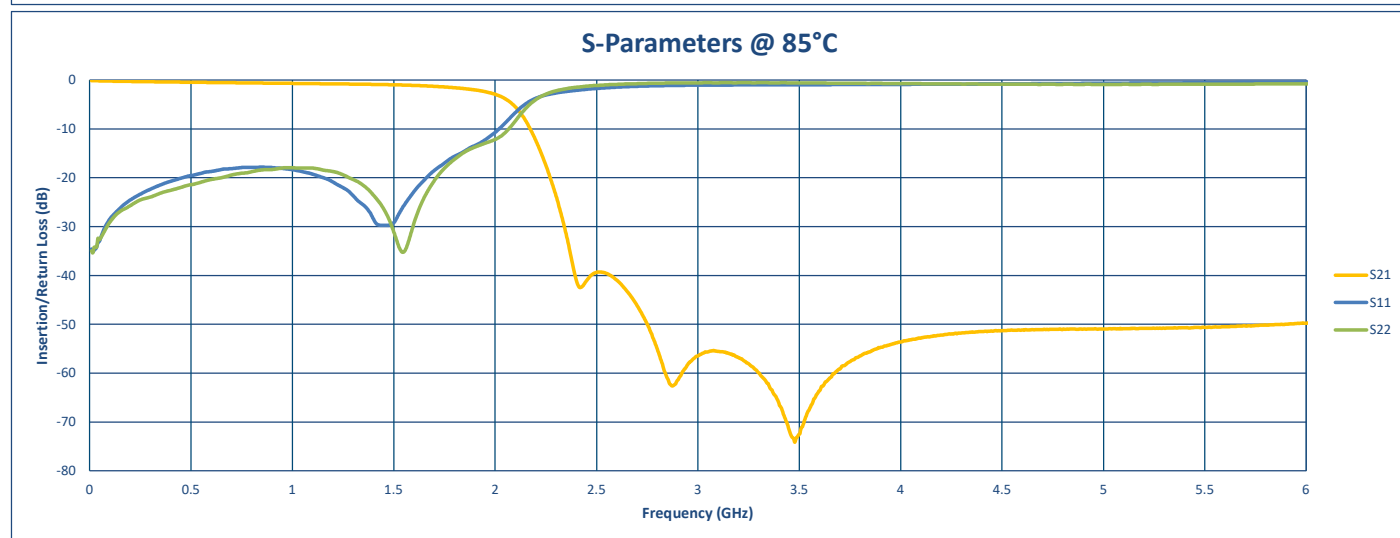
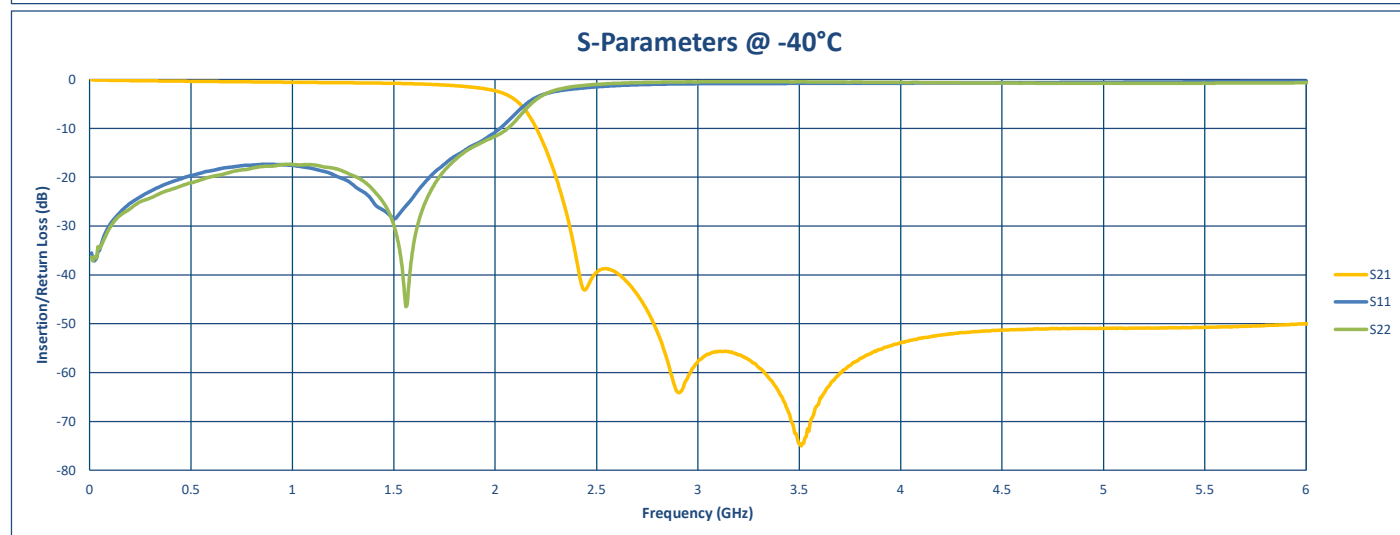
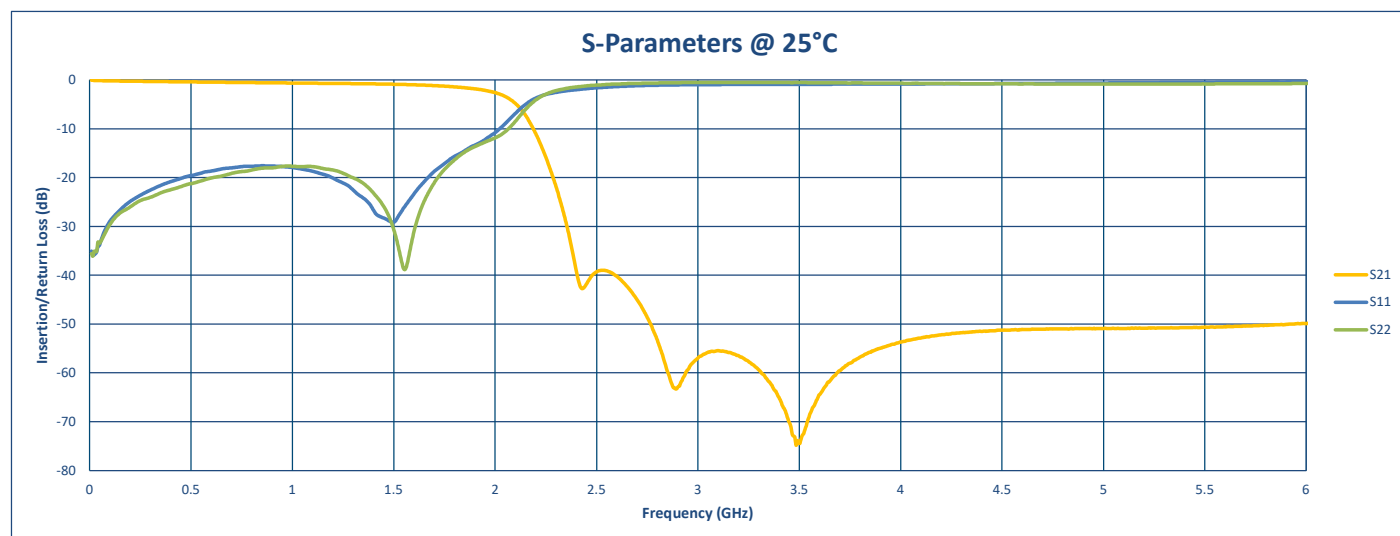
PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGN	R. SIKK	11/10/2011	OUTLINE	
REVIEW			QSM-LP-1800-SFF	
DESIGN			REV	REVISED
			B1	OSVDD
SCALE 2:1			27048090	S1
			SHEET 1 OF 1	

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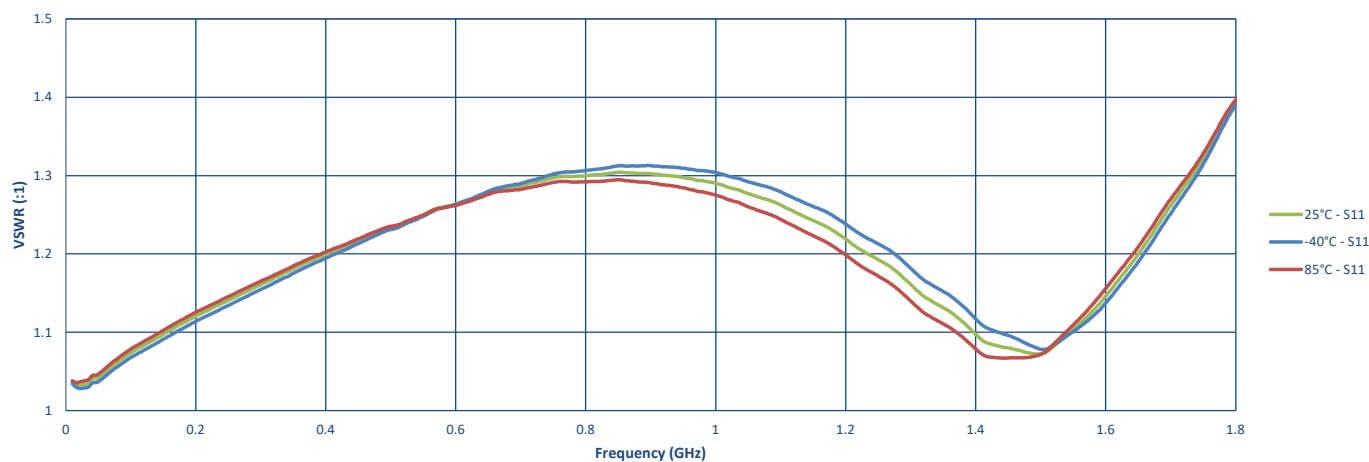
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+85°C
1	Frequency Range:	DC to 6.0 GHz	DC to 6.0 GHz		
2	Passband:	DC to 1.8 GHz	DC to 1.8 GHz		
3	3 dB Cutoff:	1800 MHz MIN	2053 MHz	2028 MHz	2010 MHz
4	VSWR: (Passband)	2.0:1 MAX	1.4:1 (See Plot)	1.41:1 (See Plot)	1.41:1 (See Plot)
5	Insertion Loss: (Passband)	3 dB MAX	1.29 dB (See Plot)	1.45 dB (See Plot)	1.6 dB (See Plot)
6	Rejection @ 6 GHz	-40 dBc MIN	-49.9 dBc (See Plot)	-49.8 dBc (See Plot)	-49.6 dBc (See Plot)

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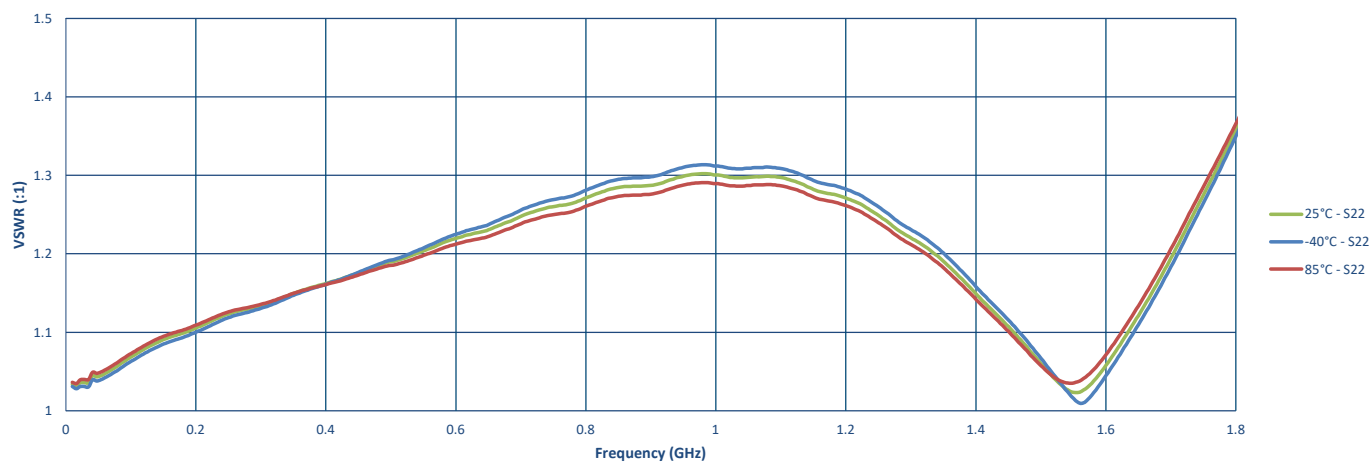


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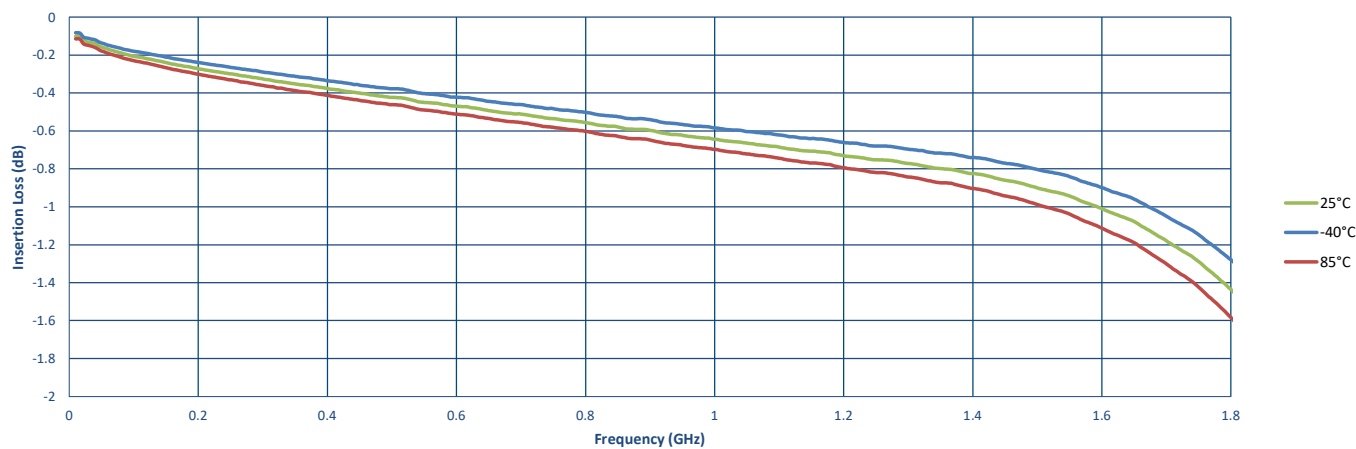
S11 Passband VSWR



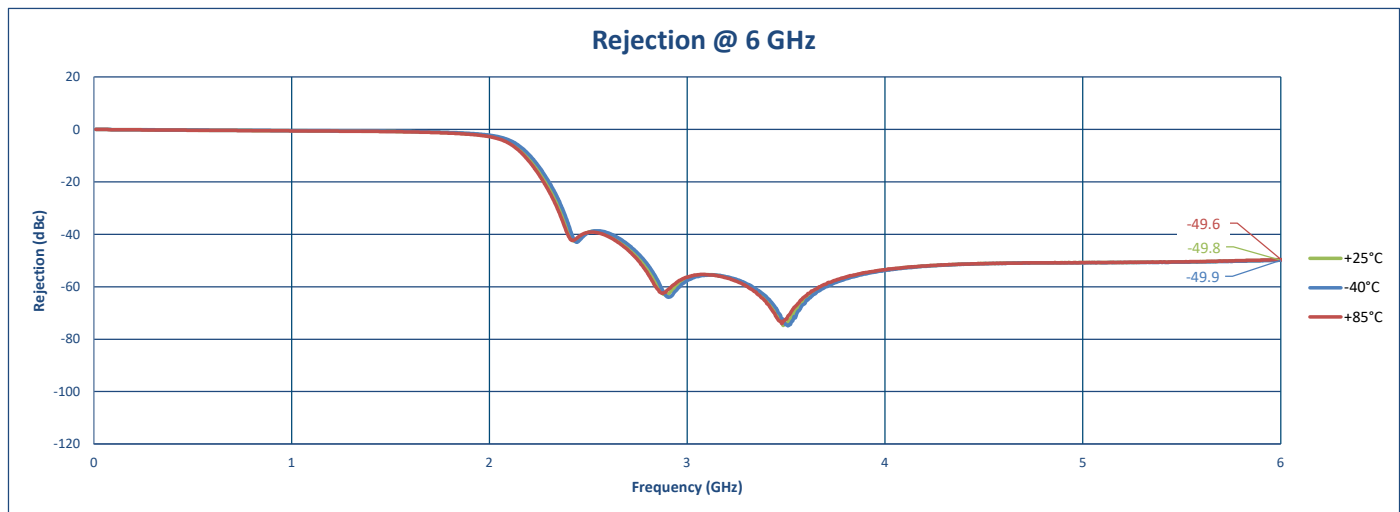
S22 Passband VSWR



Passband Insertion Loss

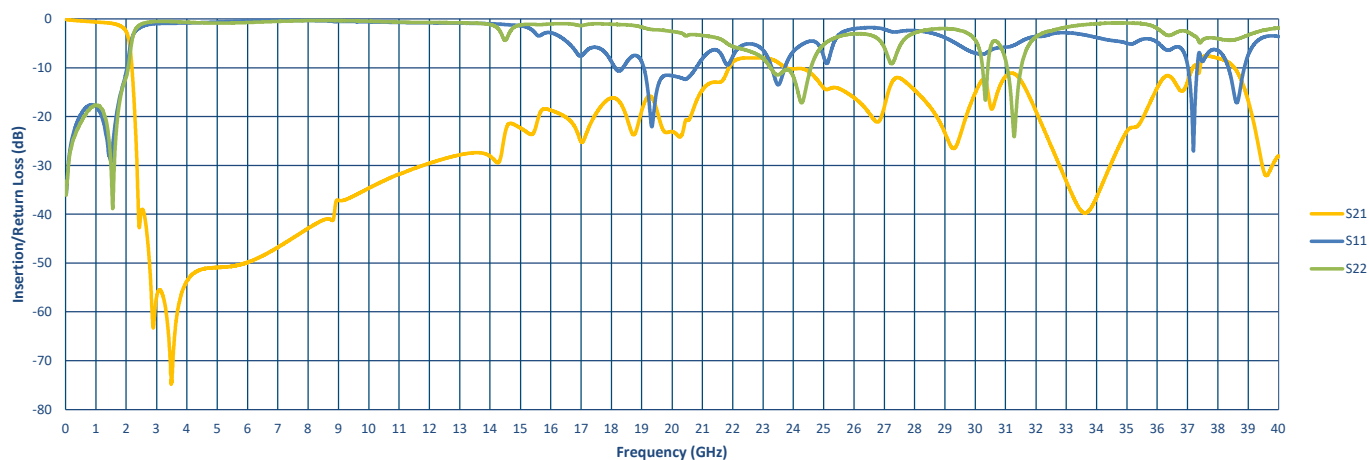


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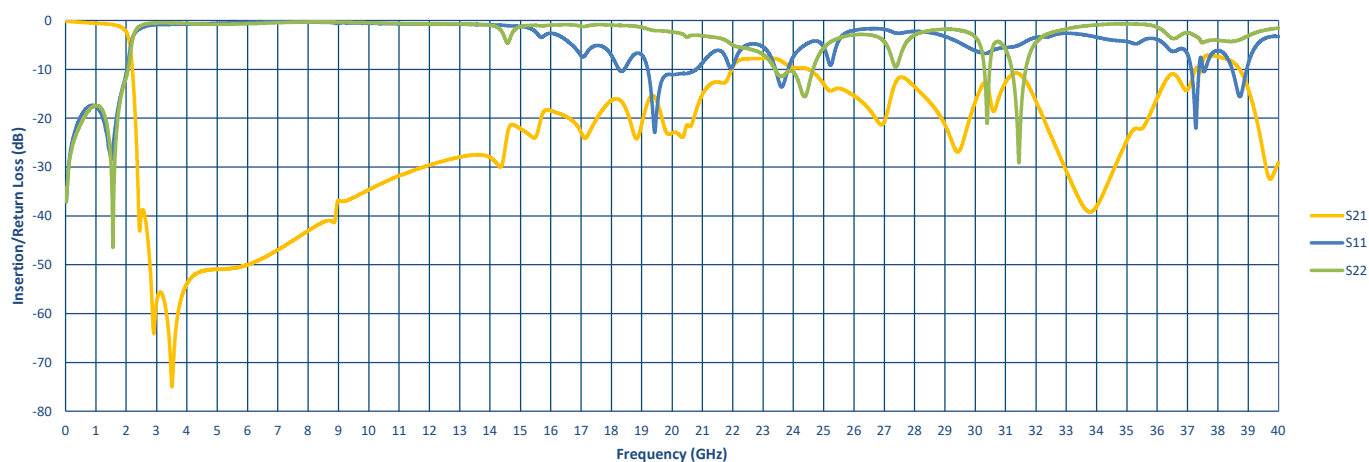


SUMMARY TEST DATA ON QSM-LP-1800-SFF

S-Parameters @ 25°C Extended



S-Parameters @ -40°C Extended



S-Parameters @ 85°C Extended

