

**SUMMARY TEST DATA
ON
QSM-LM-0R42R5-22-200W**

PMI MODEL NUMBER QSM-LM-0R42R5-22-200W IS A 0.4 GHz TO 2.5 GHz LIMITER. THIS LIMITER IS SUPPLIED IN A HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



**DESIGNED BY
PMI ENGINEERING**

**REPORTED BY
R. SIRK**

**TESTED BY
A. LOPEZ**

**DATE
February 27, 2024**

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ON
QSM-LM-0R42R5-22-200W**

OUTLINE

DESCRIPTION:

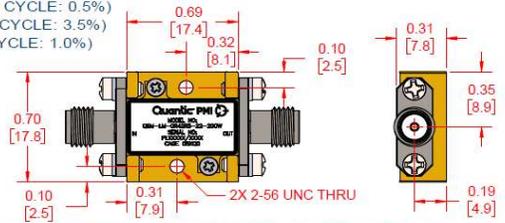
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ZONE	REV.	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	01/10/2011	
A2		ECN # 24-0054	01/09/21	
B1		ECN # 25-0014	10/10/22	

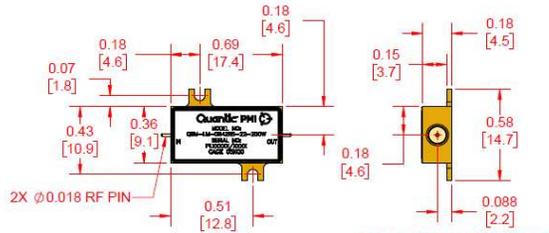
SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.4 TO 2.5 GHz
- VSWR (INPUT/OUTPUT):..... 1.2 : 1 MAX
- INSERTION LOSS:..... 0.6 dB MAX
- INPUT POWER (PEAK):..... 100 kHz-400 MHz: 42 dBm MAX (PULSE WIDTH: 23 us, DUTY CYCLE: 0.5%)
400 MHz-4 GHz: 53 dBm MAX (PULSE WIDTH: 130 us, DUTY CYCLE: 3.5%)
4 GHz-40 GHz: 45 dBm MAX (PULSE WIDTH: 2.6 us, DUTY CYCLE: 1.0%)
- INPUT POWER (CW):..... 40 dBm MAX
- FLAT LEAKAGE:..... 22 dBm MAX
- SPIKE LEAKAGE:..... 0.5 ergs MAX
- P1dB:..... 7 dBm MIN
- RECOVERY TIME:..... TO 1 dB INSERTION LOSS WITHIN 1000 ns OF 50% OF THE FALLING EDGE OF RF PULSE
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS:

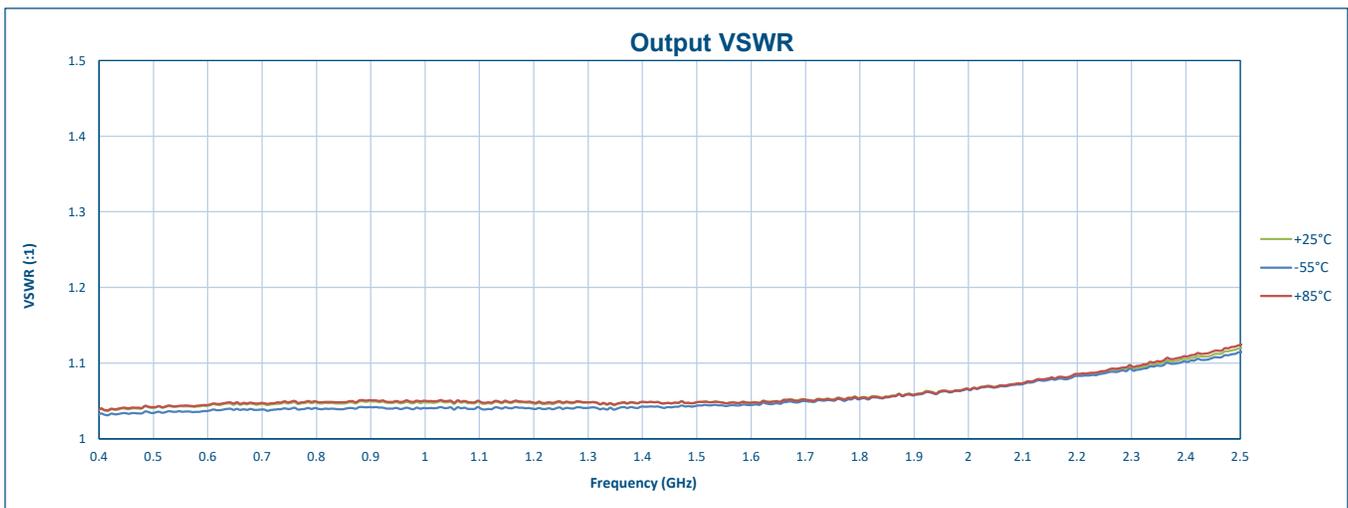
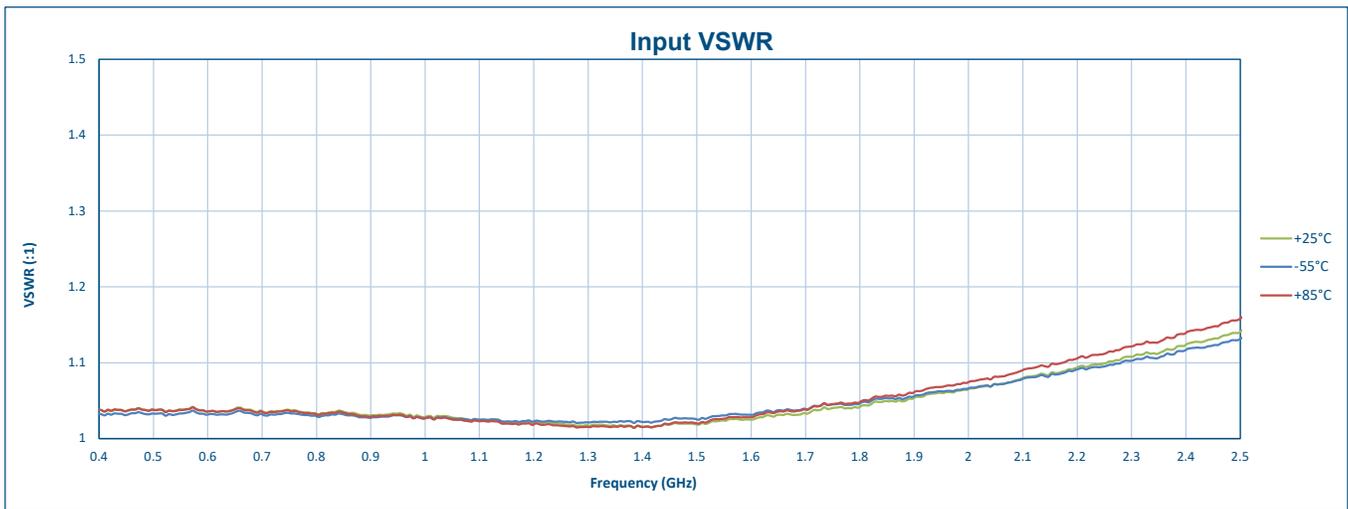
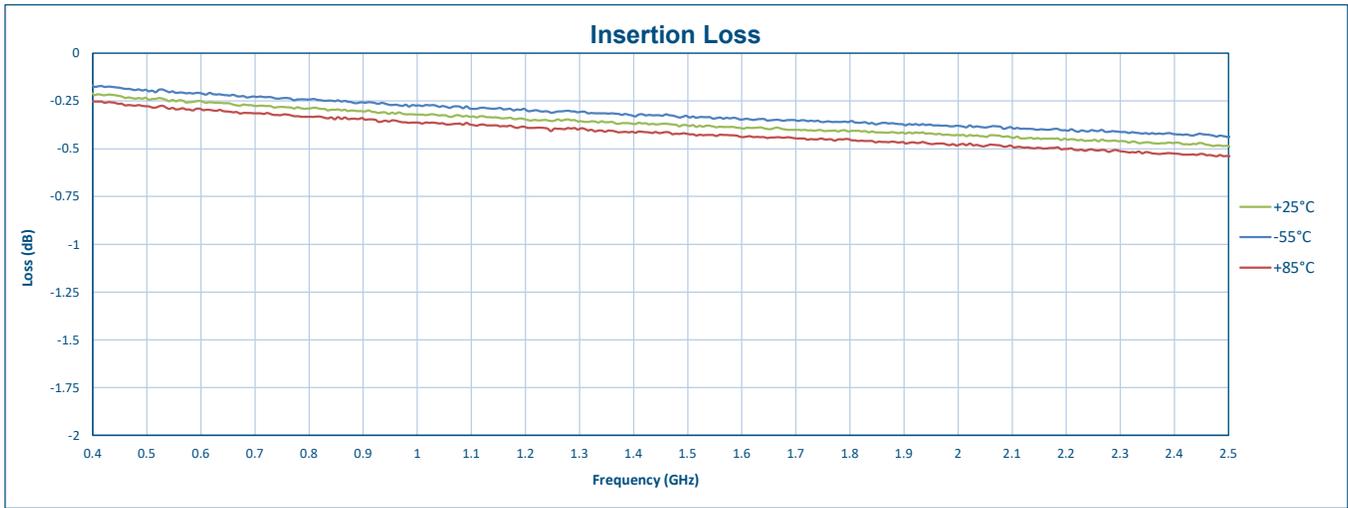
- TEMPERATURE:..... -54°C TO +85°C (OPERATING)
-54°C TO +85°C (STORAGE)

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

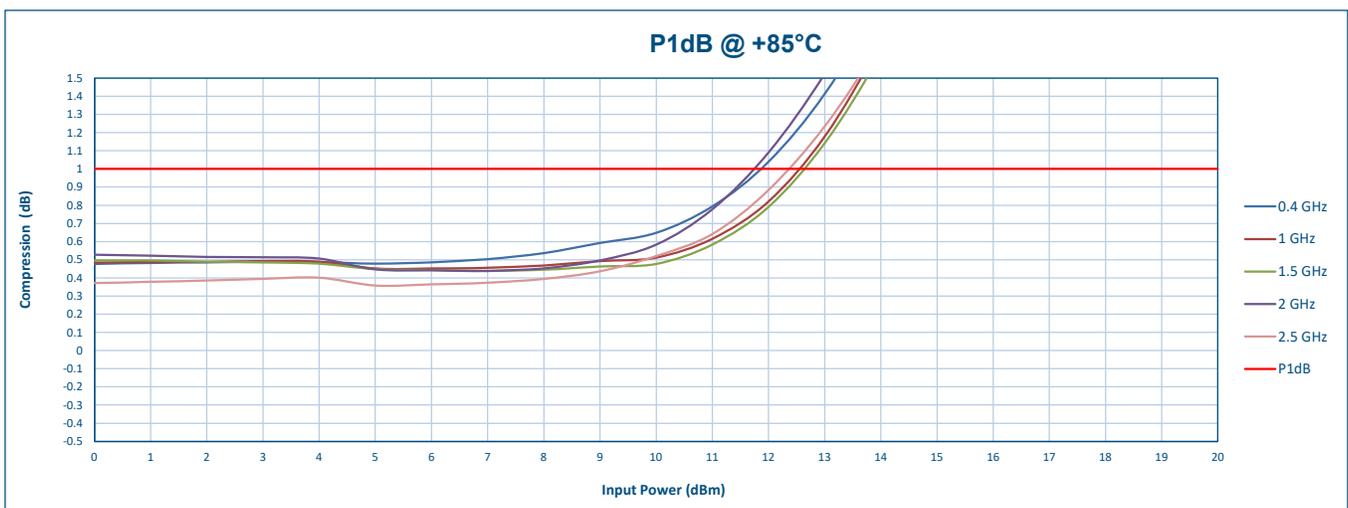
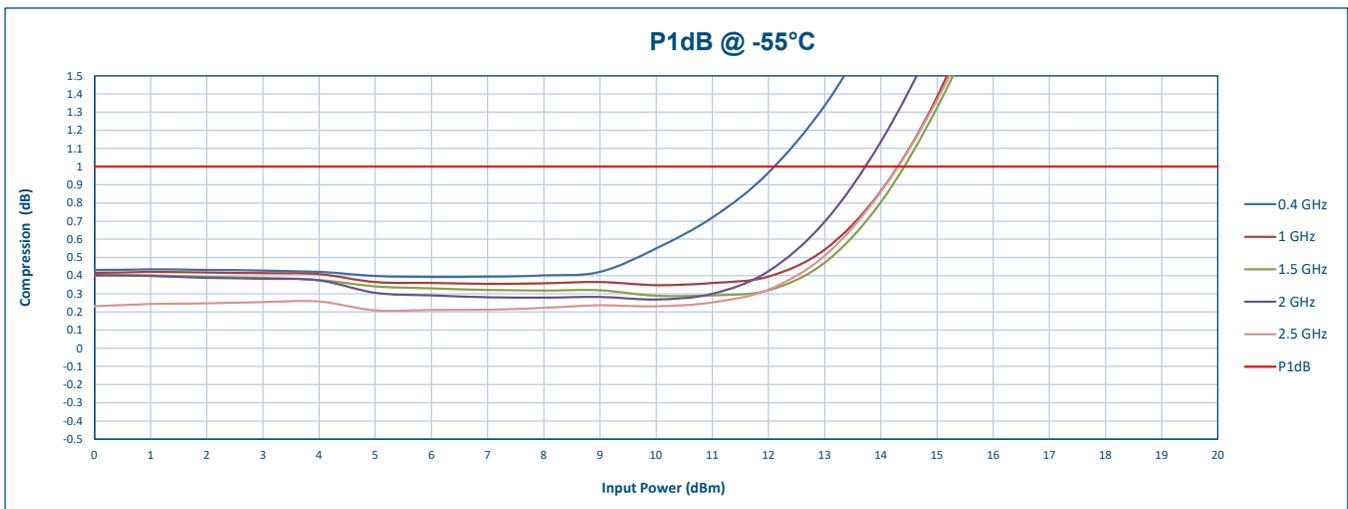
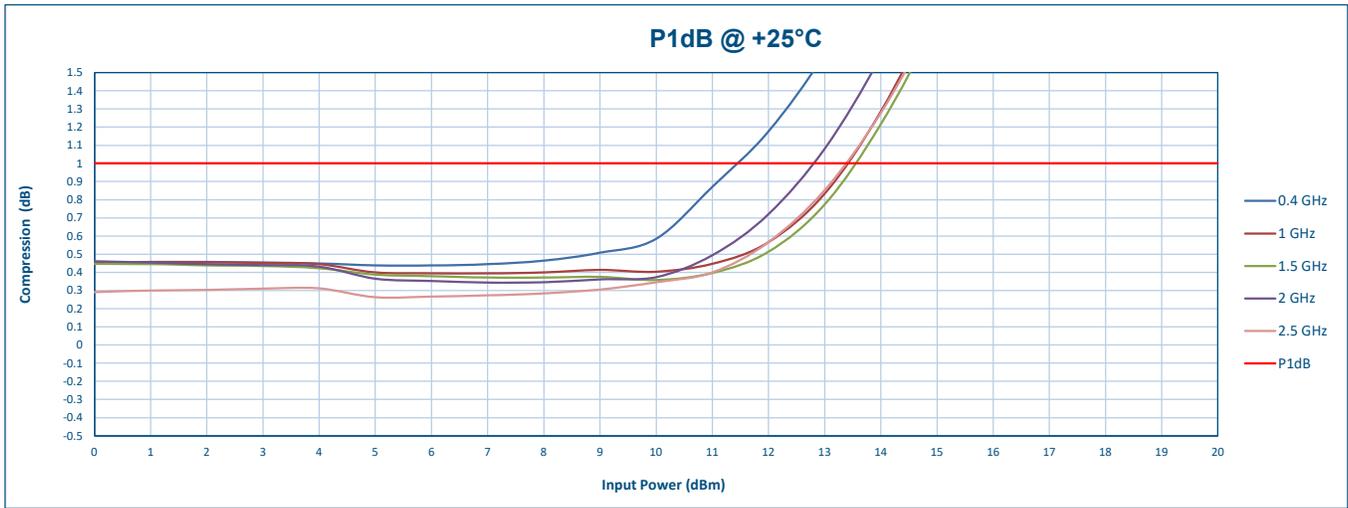
APPROVALS		DATE	TITLE	
DESIGNED	R. SBRK	01/10/2011	OUTLINE	
DESIGNED	ESW	01/10/2011	OUTLINE	
SCALE	B	FROM NO.	QSM-LM-0R42R5-22-200W	REV
	B	05XG0	27047220	B1
		SCALE	2:1	SHEET 1 OF 1

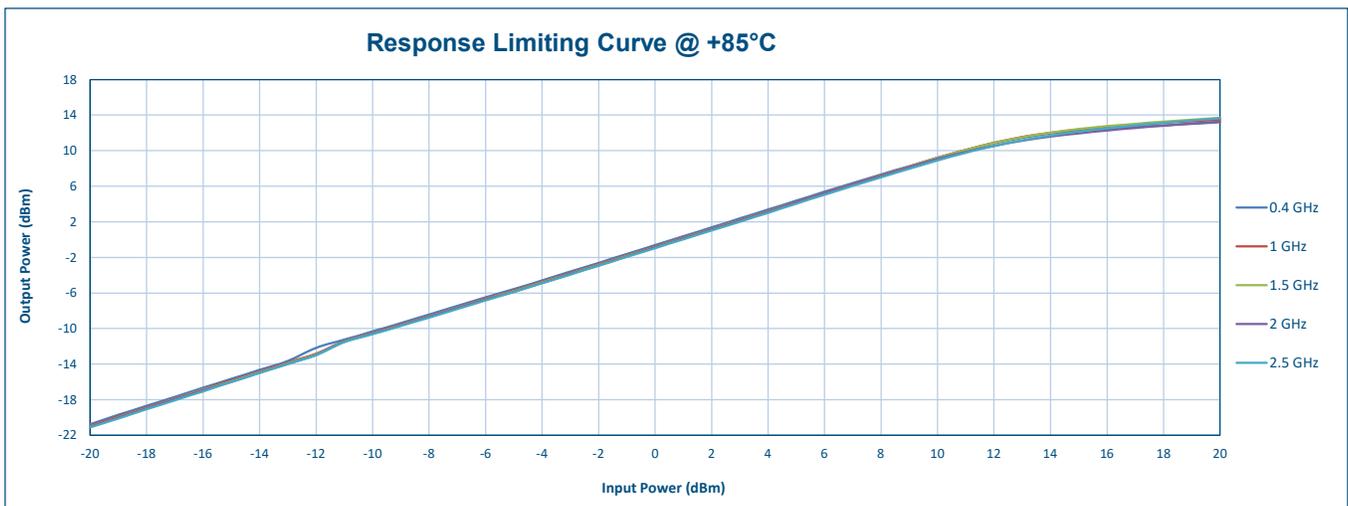
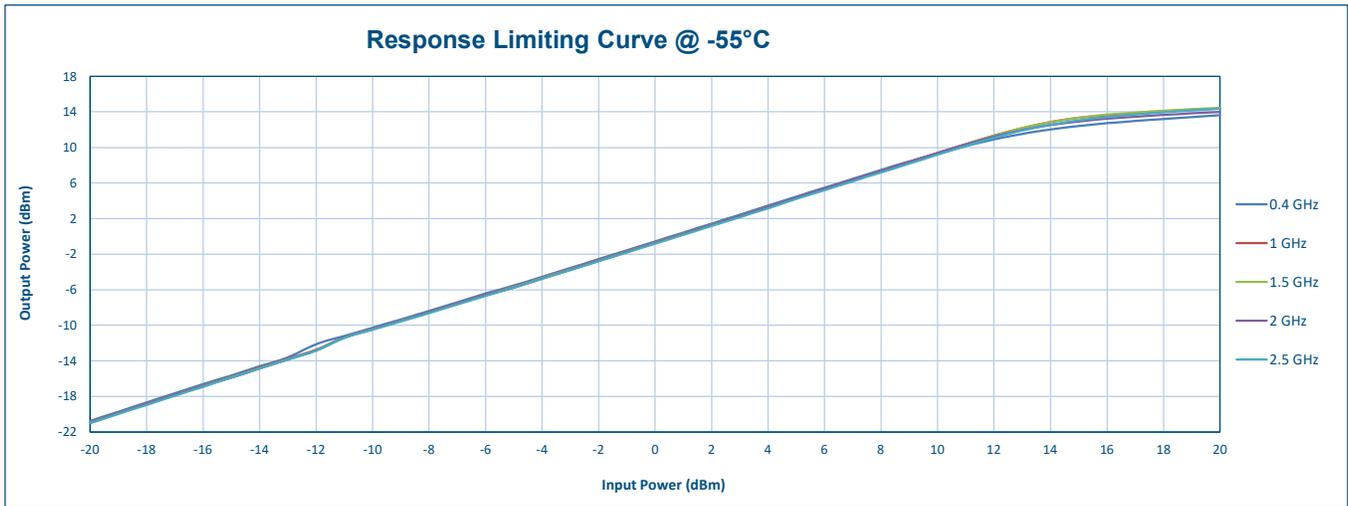
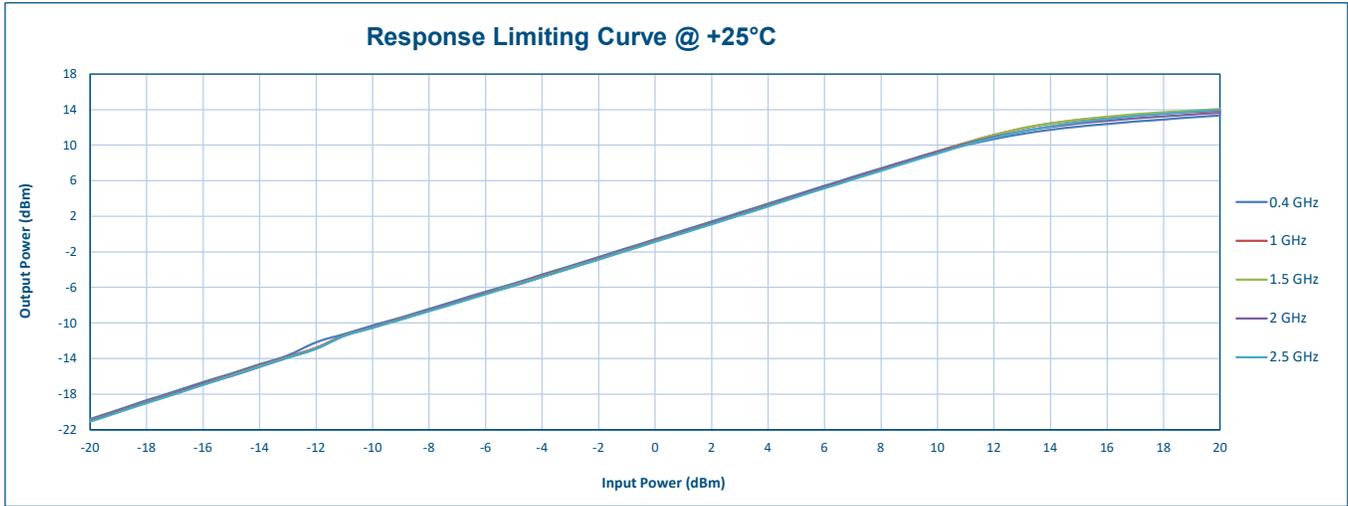
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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-55°C	+25°C	+85°C
1	Frequency Range:	0.4 to 2.5 GHz	0.4 to 2.5 GHz		
2	Insertion Loss:	0.6 dB Max	0.44 dB	0.49 dB	0.54 dB
3	Input/Output VSWR:	1.2:1 Max	1.13:1	1.14:1	1.16:1
4	Max Peak Input Power:	+53 dBm (0.4 GHz to 2.5 GHz, 130 us Pulse Width, 3.5% Duty Cycle)	+53 dBm Peak See Plot		
5	Input Power (CW):	+40 dBm (0.4GHz to 2.5 GHz)	+40 dBm See Plot		
6	Flat Leakage:	+22 dBm Max.	15.38 dBm See Plot	15.07 dBm See Plot	14.7 dBm See Plot
7	Spike Leakage:	0.5 ergs Max.	0.3 ergs		
8	Limiting Threshold (P1dB):	+7 dBm Min	+12 dBm See Plot	+11 dBm See Plot	+11 dBm See Plot
9	Recovery Time:	1000 ns of 50% falling edge to within 1 dB insertion loss.	<100 ns See Plot		

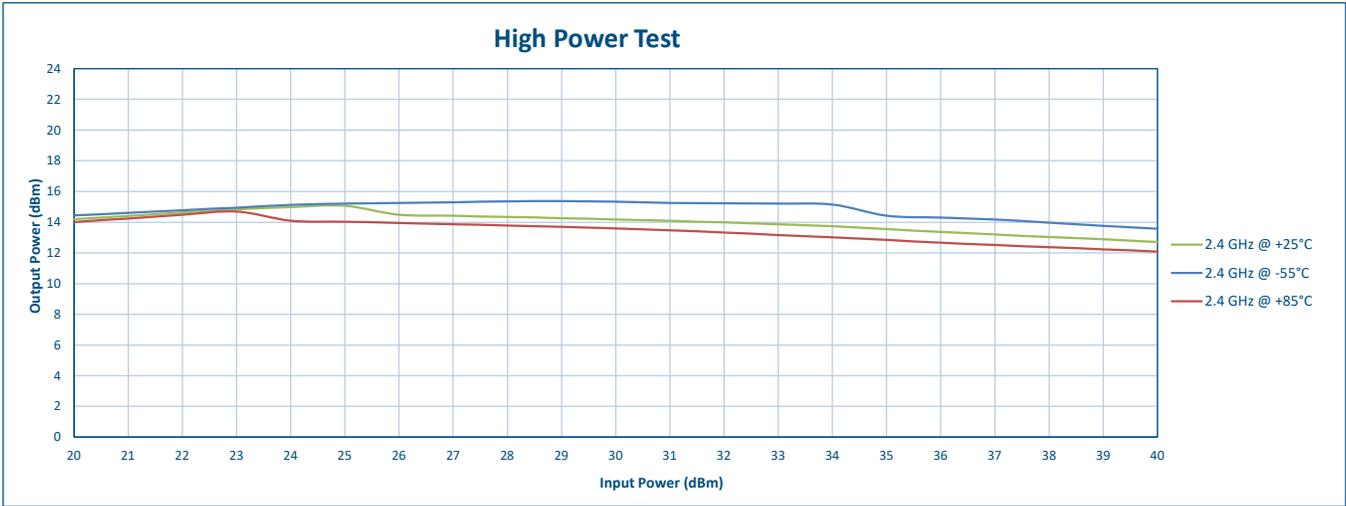


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Peak Power Test
130µs PW, 3.5 Duty Cycle
Input Power 200 Watts Peak (+53 dBm) Freq 2.4 GHz

