

**TYPICAL CHARACTERISTICS
ON
LM-10M2D5G-100CW-1KWP-SFF-TH**



Reported by: PMI Engineering
Date: 8/15/25

TYPICAL CHARACTERISTICS ON LM-10M2D5G-100CW-1KWP-SFF-TH

DESCRIPTION:

PMI MODEL: LM-10M2D5G-100CW-1KWP-SFF-TH IS A RF LIMITER THAT OPERATES IN THE 10 MHz TO 2.5 GHz FREQUENCY RANGE. THIS LIMITER CAN HANDLE 100W CW AND 1 kW PEAK (1% DUTY CYCLE, 1 us MAXIMUM PULSE WIDTH) INPUT POWER AND PROVIDES A MAXIMUM LEAKAGE OF +13 dBm AT 10 W CW INPUT. THIS MODEL HAS LOW INSERTION LOSS OF 0.8 dB AND A RECOVER TIME OF 2 us TYPICAL.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 10 MHz TO 2.5 GHz
- INSERTION LOSS:..... 0.8 dB MAX
- VSWR:..... 1.3:1 MAX (@ -10 dBm INPUT POWER)
- IMPEDANCE:..... 50Ω
- INPUT POWER:..... 100 W CW MAX @ -55°C TO +85°C*
1 kW PEAK MAX (1 μs PULSE WIDTH, 1% DUTY CYCLE)**
- MAXIMUM FLAT LEAKAGE:..... +13 dBm MAX @ 10W CW, 0 dBm MIN
- RECOVERY TIME :..... 2 us TYP
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

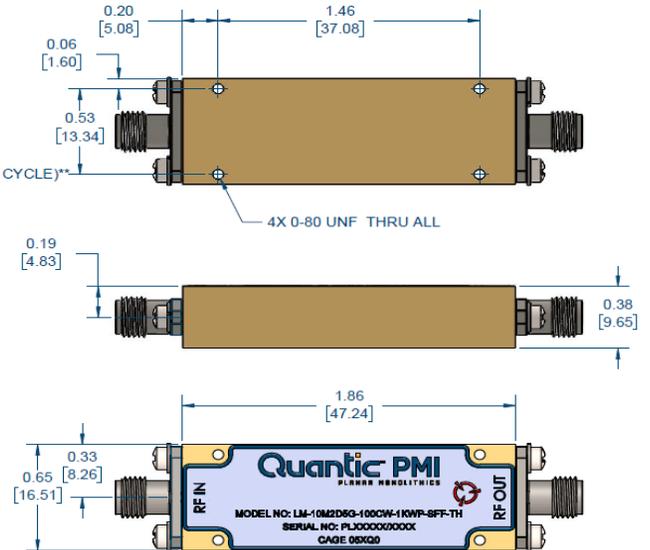
* POWER RATING AT 25°C; DERATED LINEARLY TO ZERO @ 150°C
HIGH POWER TEST DURATION: FULL RATED POWER FOR 10 SECONDS
** EXTERNAL DC BLOCKS ARE REQUIRED FOR PROPER FUNCTION

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-60°C TO +100°C (STORAGE)
- STABILIZATION BAKE:..... MIL-STD-883, METHOD 1008, TEST COND. B
- THERMAL CYCLE:..... MIL-STD-883, METHOD 1010, TEST COND. B
- CONSTANT ACCELERATION:..... MIL-STD-883, METHOD 2001, A (Y1 AXIS)
- EXTERNAL VISUAL:..... MIL-STD-883, METHOD 2009

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/23/2008	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	DATE		LM-10M2D5G-100CW-1KWP-SFF-TH	
REVIEWED	DATE		SHEET	REV
			B	A1
			SCALE 2:1	SHEET 1 OF 1

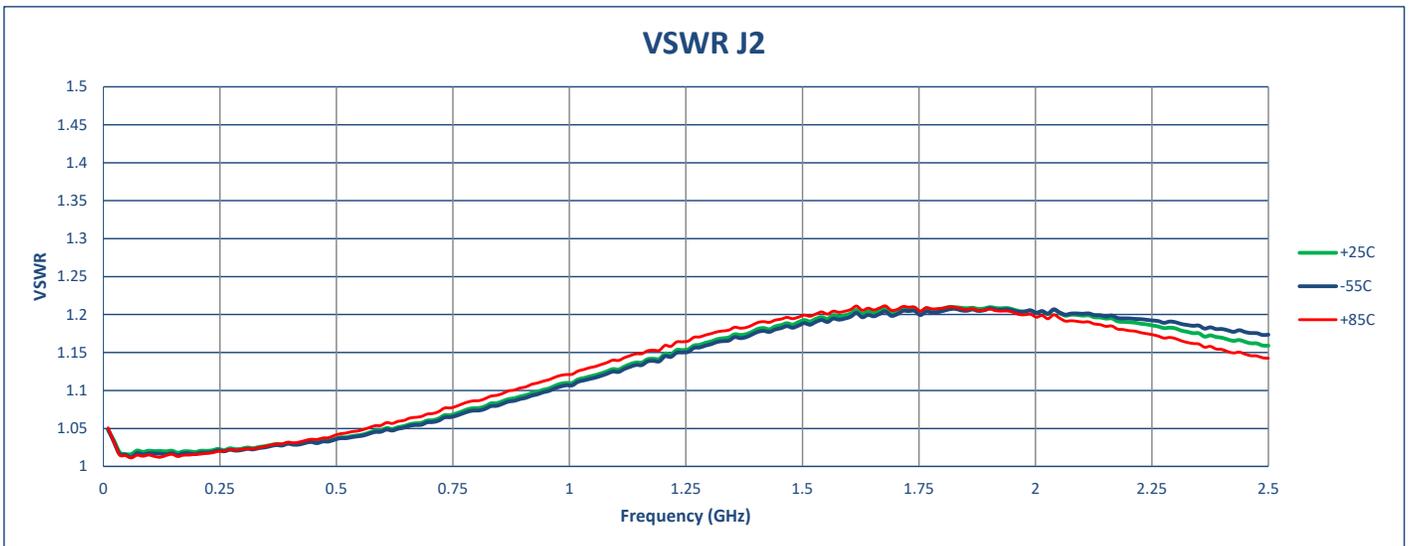
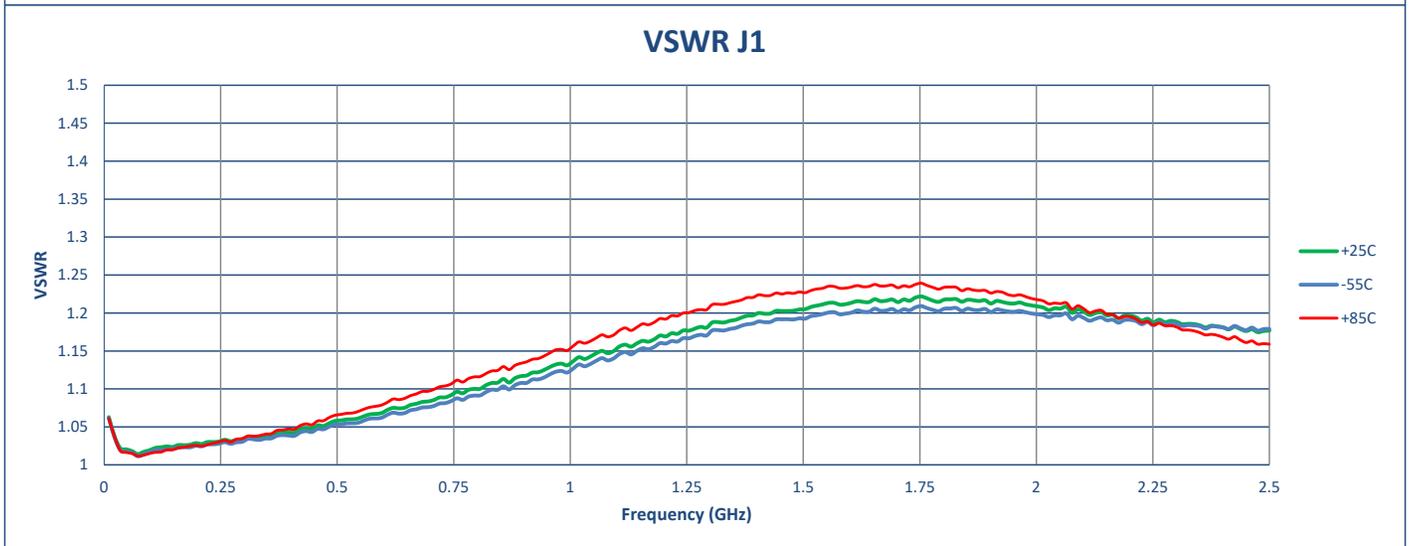
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TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25C	-55C	+85C
1	Frequency Range:	10 MHz to 2.5 GHz	10 MHz to 2.5 GHz		
2	Insertion Loss:	0.8 dB Max.	0.58 dB See Graph	0.49 dB See Graph	0.69 dB See Graph
3	VSWR:	1.3:1 Max. @ -10 dBm Input	1.22:1 In See Graph	1.21:1 In See Graph	1.2:1 In See Graph
4	Flat Leakage:	+13 dBm Max. @ 10W CW	Pass		

Notes:

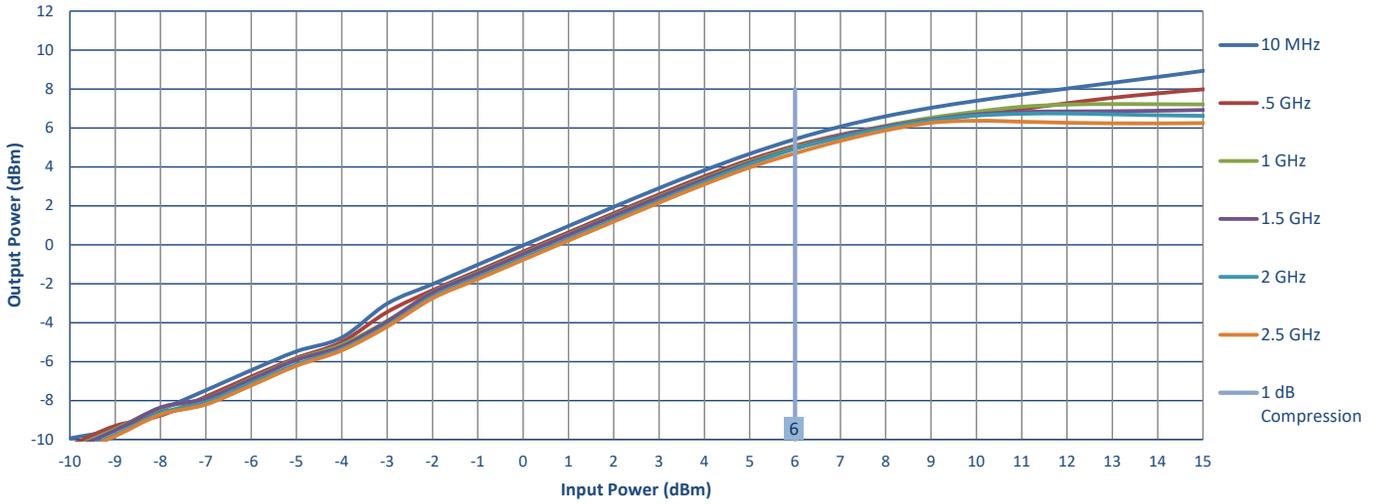
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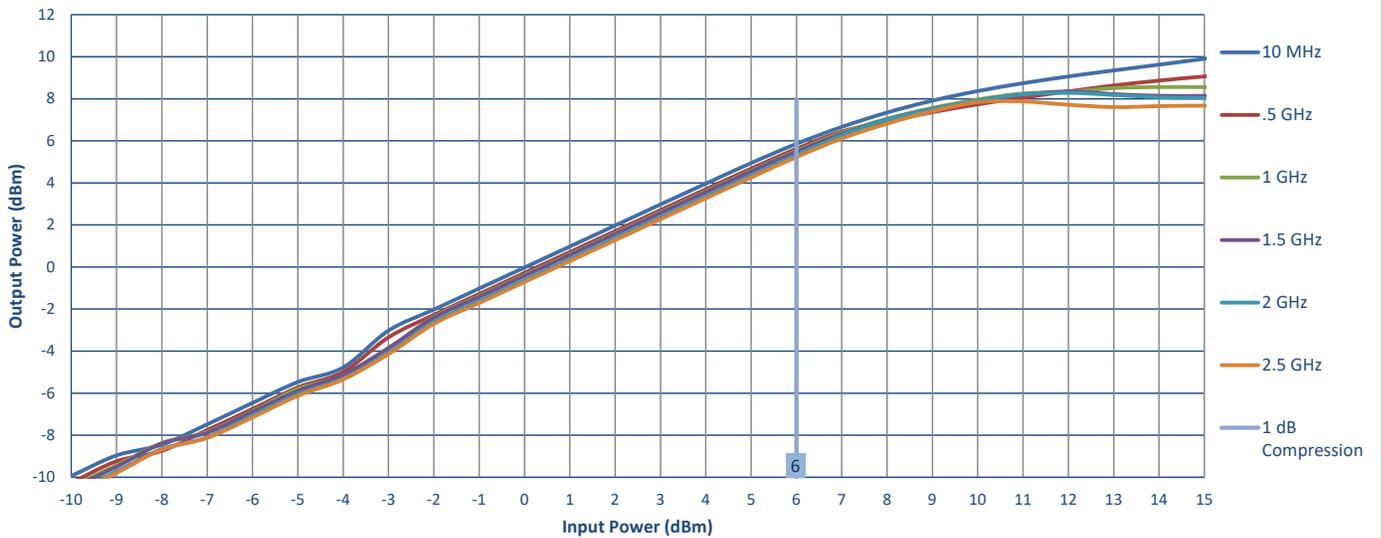


**TYPICAL CHARACTERISTICS
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Limiter Response with Frequency @ 25C



Limiter Response with Frequency @ -55C



Limiter Response with Frequency @ 85C

