

PLANAR MONOLITHICS INDUSTRIES MODEL LM-0D5M18G-16-20W-AL-292FM IS A HIGH POWER LIMITER THAT WORKS FROM 0.5 MHz TO 18 GHz.



3/27/2026

Designed by:

Engineering PMI

Tested and Reported by:

V. Vasquez



TYPICAL CHARACTERISTICS ON LM-0D5M18G-16-20W-AL-292FM

Product Feature

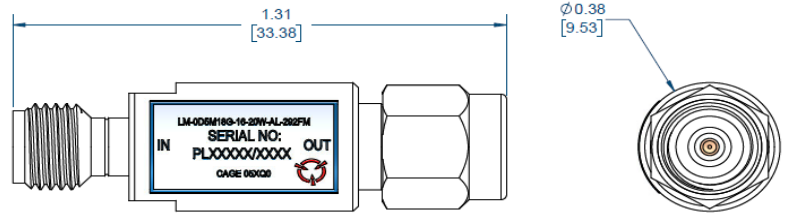
DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL LM-0D5M18G-16-20W-AL-292FM IS A HIGH POWER LIMITER THAT WORKS FROM 0.5 MHz TO 18GHz.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/28/2018	

SPECIFICATIONS:

- FREQUENCY RANGE:..... 0.5 MHz TO 18.0 GHz
- RF POWER HANDLING:..... 20 W CW MAX
1 kW PEAK MAX (1 μs PULSE WIDTH, 1% DUTY CYCLE)
100 W PEAK MAX (10 μs PULSE WIDTH, 10% DUTY CYCLE)
- INSERTION LOSS:..... 2.0 dB MAX @ -10 dBm INPUT POWER
- RECOVERY TIME (3 dB):..... 500 ns MAX @ 1 kW PEAK POWER
- LEAKAGE POWER:..... +17 dBm MAX
- IMPEDANCE:..... 50Ω
- VSWR:..... 2.0:1 MAX @ -10 dBm INPUT POWER
- LIMITING THRESHOLD:..... +5 dBm MIN (1 dB COMPRESSION)
- CONNECTORS:..... 2.92mm FEMALE INPUT
2.92mm MALE OUTPUT
- FINISH:..... ALBALOY PLATED



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-62°C TO +95°C (STORAGE)
- VIBRATION:..... 0.1 INCHPP OR ± 10g, 5 ~ 500 Hz
(FIGURE 2, SHEET 1 OF 3 CURVE IV)
- SHOCK:..... 20g, 11 ± 1 ms
- HUMIDITY:..... 100%
- ALTITUDE:..... 70,000 FT

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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	M. LAULIS	10/28/2018	OUTLINE	
ISSUED			SIZE	LM-0D5M18G-16-20W-AL-292FM
			B	05XQ0 27053840
SCALE 2:1			SHEET 1 OF 1	



**TYPICAL CHARACTERISTICS
ON
LM-0D5M18G-16-20W-AL-292FM**

Technical Specifications

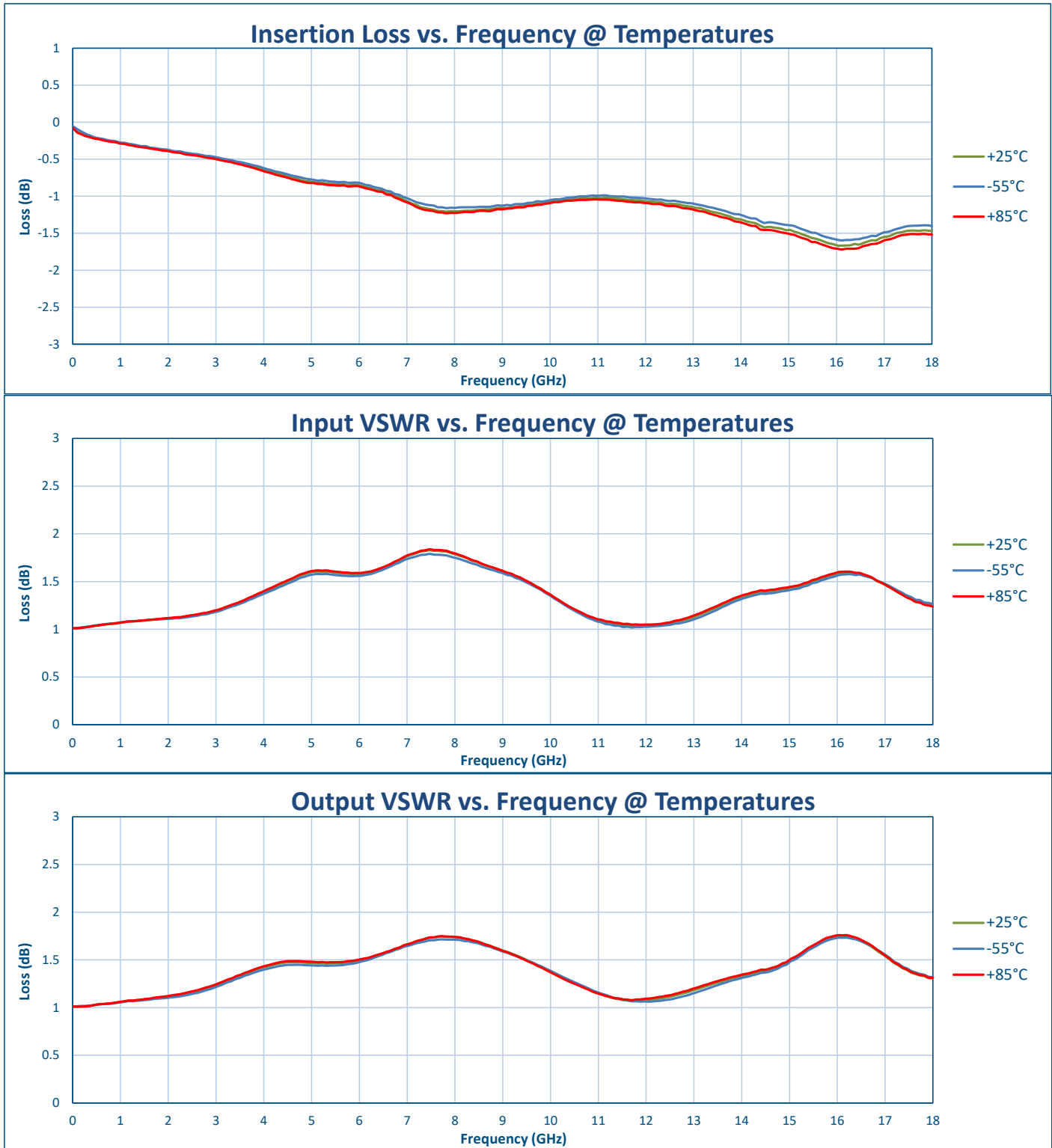
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-55°C	+85°C
1	Frequency Range:	0.5 MHz to 18 GHz	0.5 MHz to 18 GHz		
2	Insertion Loss:	2.0 dB Max.	1.67 dB See Graph.	1.6 dB See Graph.	1.72 dB See Graph.
3	VSWR: (Input)	2.0:1 Max.	1.83 :1 See Graph.	1.79 :1 See Graph.	1.84 :1 See Graph.
4	VSWR: (Output)	2.0:1 Max.	1.75 :1 See Graph.	1.73 :1 See Graph.	1.76 :1 See Graph.
5	Limiting Threshold:	+ 5 dBm Min. (1 dB Compression)	+7 dBm See Graph.	+7 dBm See Graph.	+7 dBm See Graph.
6	Input Power:	+43 dBm CW Max.	Pass +43 dBm CW See Graph	Pass +43 dBm CW See Graph	Pass +43 dBm CW See Graph
7	Leakage Power:	+17 dBm Max.	+16.05 dBm See Graph	+16.17 dBm See Graph	+15.64 dBm See Graph
8	Recovery Time:	500 ns Max.	46.97 ns		

QA/QC Approval: _____

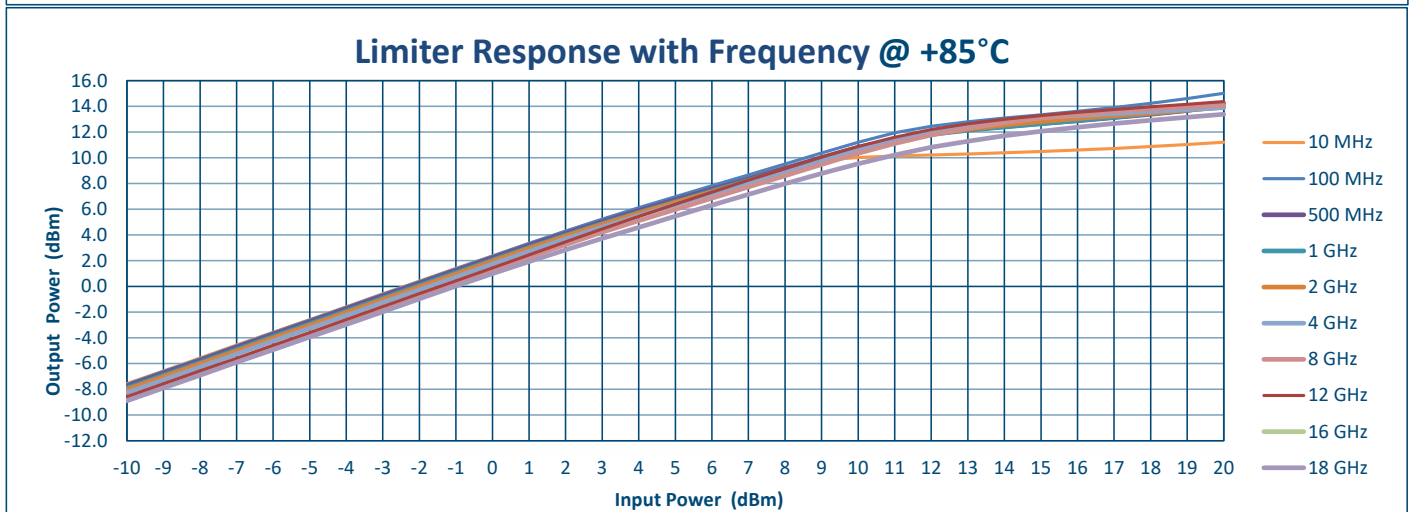
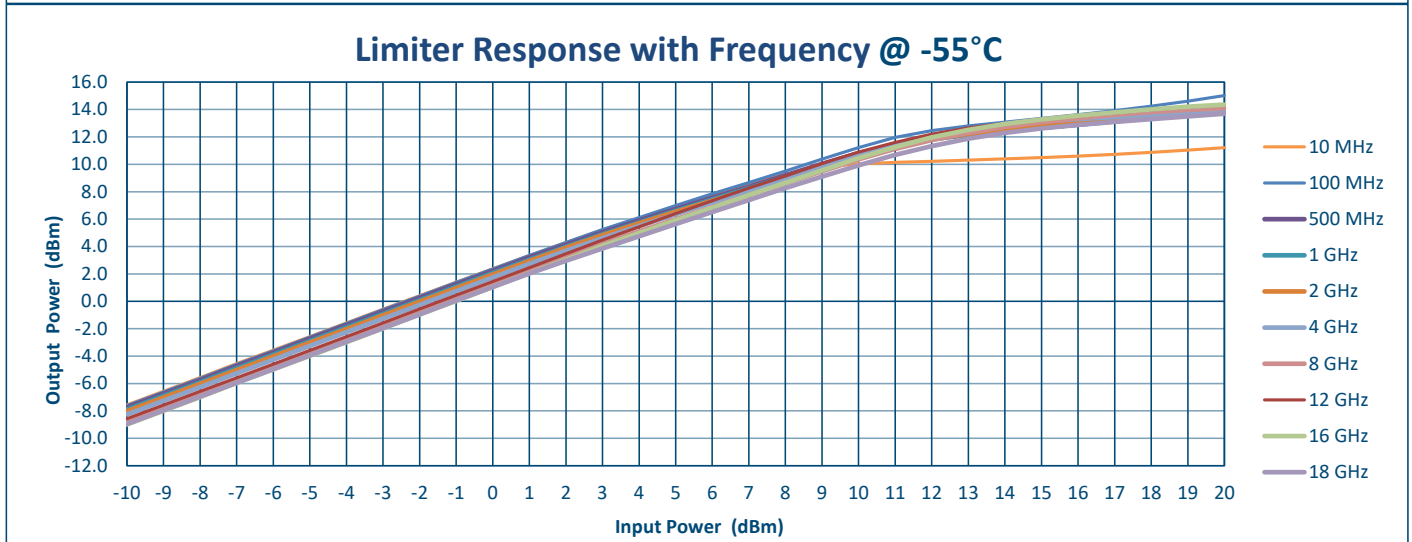
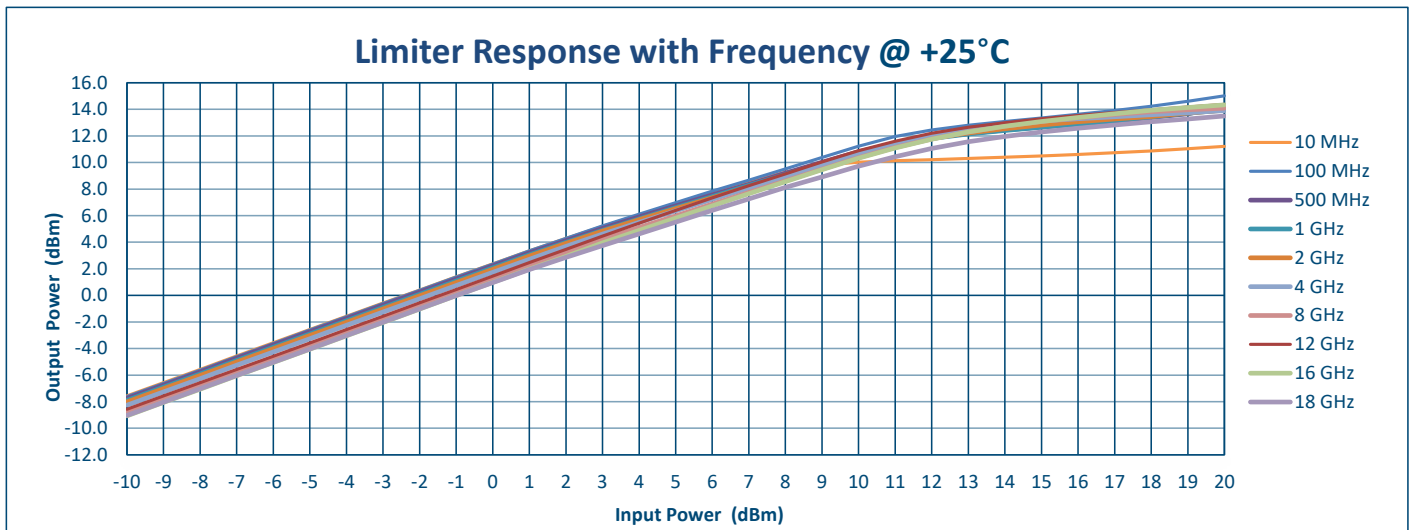
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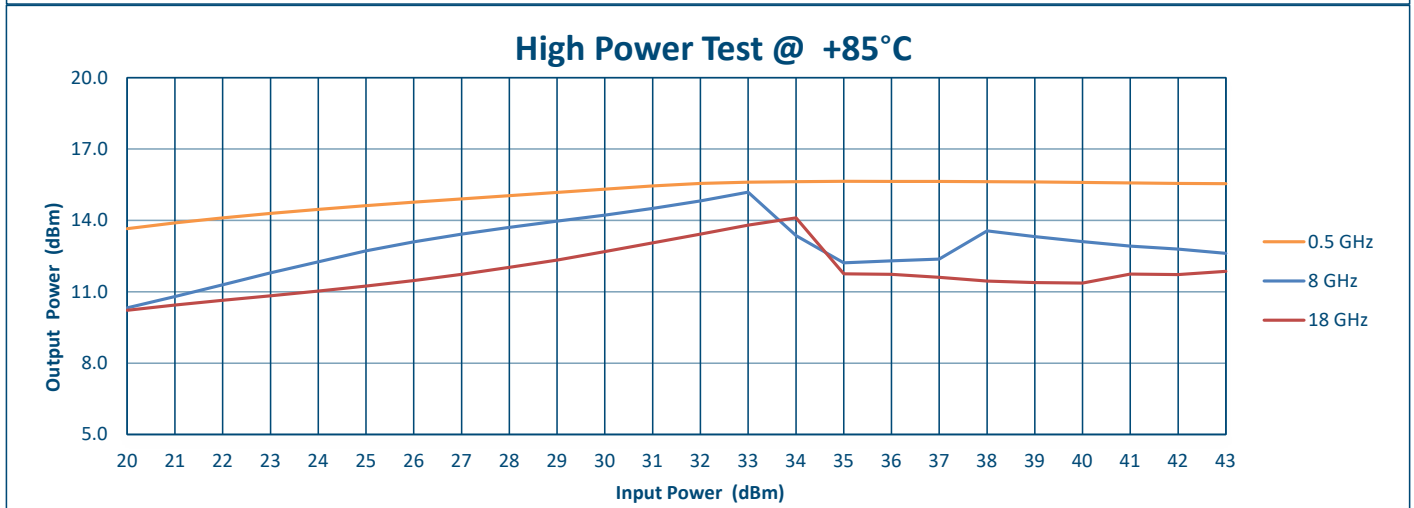
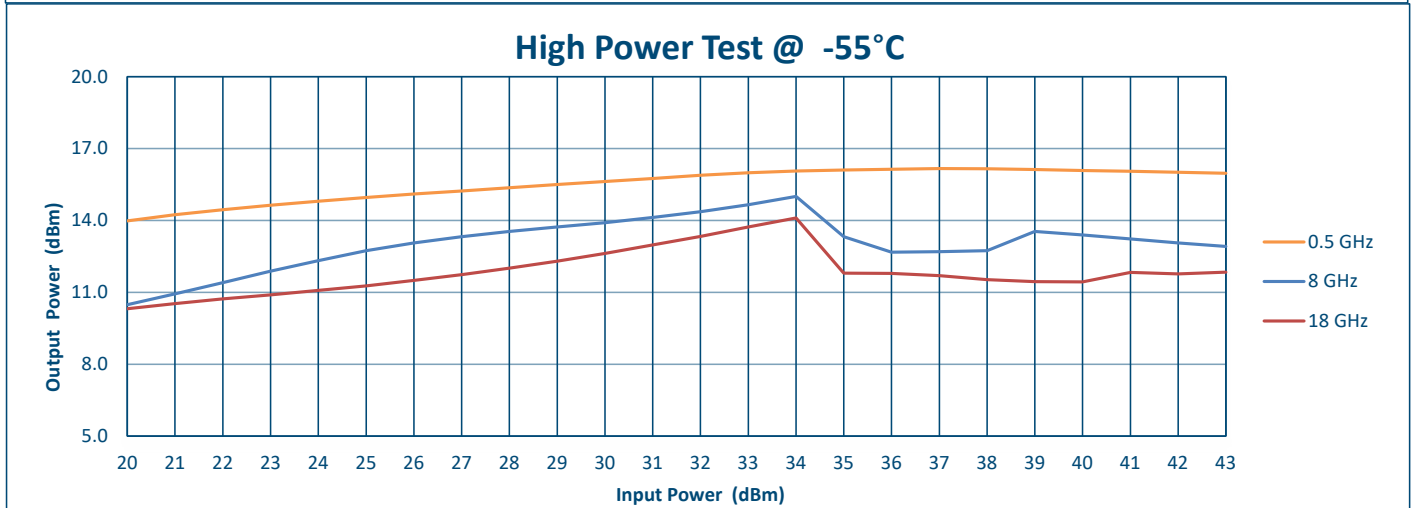
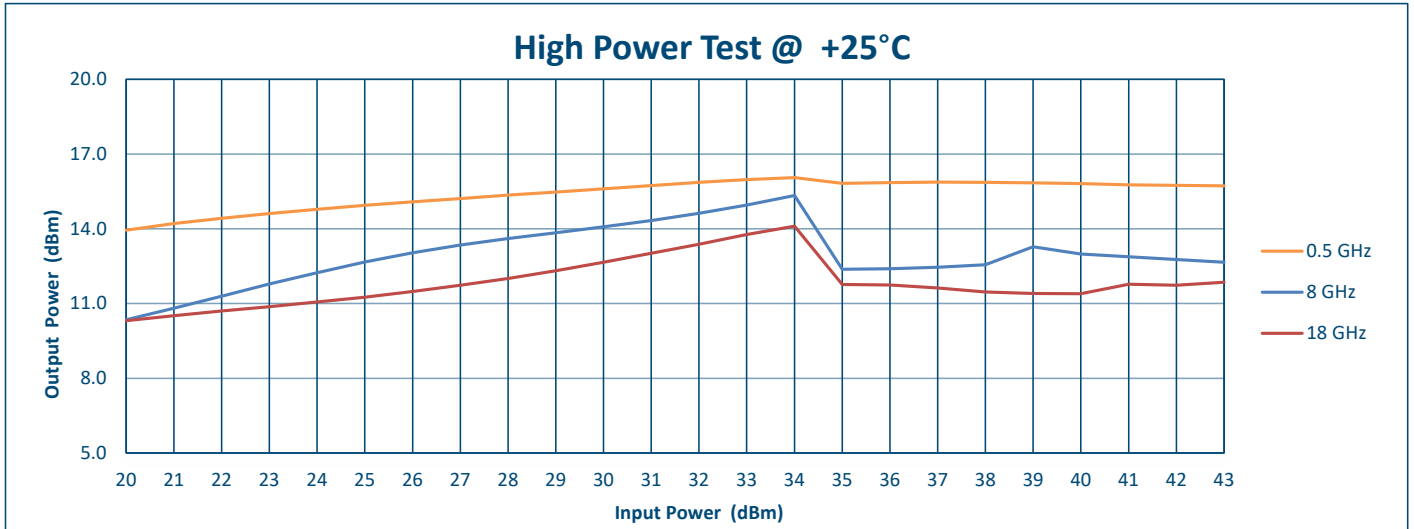


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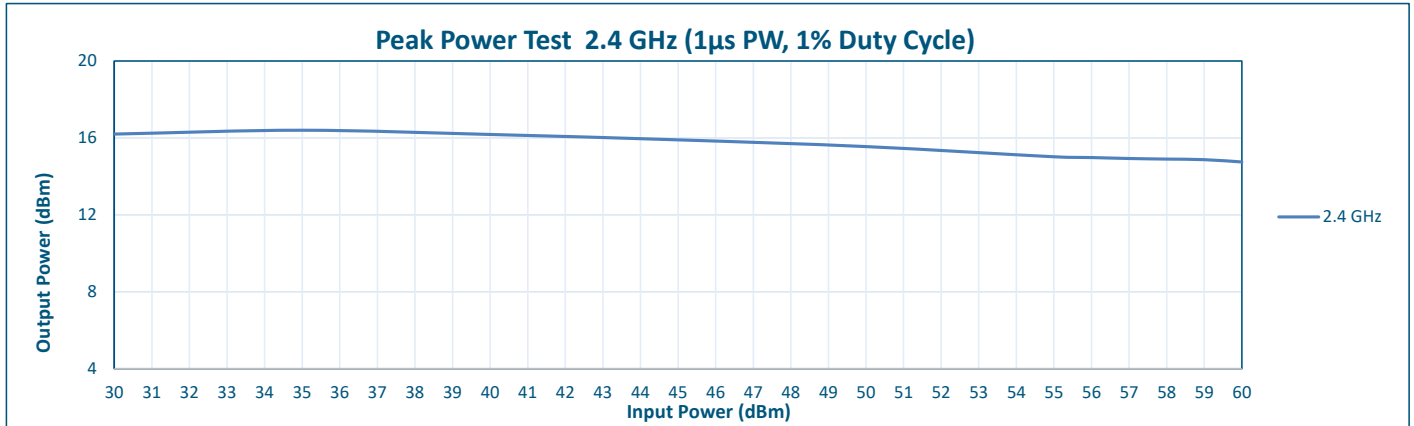


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TYPICAL CHARACTERISTICS ON LM-0D5M18G-16-20W-AL-292FM



Recovery Time
1 µs PW, 1% Duty Cycle
+60 dBm Input Power
2.4 GHz

Measured Value: 46.97 ns



Spike Leakage
1 µs PW, 1% Duty Cycle
+60 dBm Input Power
2.4 GHz

Measured Value: 21.55 mV





TYPICAL CHARACTERISTICS ON LM-0D5M18G-16-20W-AL-292FM

Full Pulse
1 μ s PW, 1% Duty Cycle
+60 dBm Input Power
2.4 GHz

