Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

PMI MODEL: LM-50M4G-16-1W-SFF IS A HIGH POWER LIMITER OPERATING IN THE FREQUENCY RANGE 50 MHz TO 4 GHz,(USABLE TO 11 GHz) WITH 1W (+30 dBm) OF CW POWER HANDLING (USABLE TO 4W), AND 32W PEAK POWER (+45dBm), PULSE WIDTH 1 µSec, Duty Cycle 0.1%. THIS COMPACT HOUSING IS FITTED WITH SMA FEMALE CONNECTORS.

April 17, 2020

Designed By: Engineering PMI

Tested and Reported By:

Alfredo Lopez

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

Outline Drawing

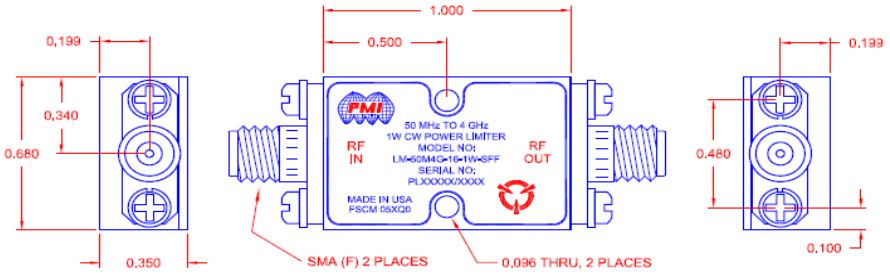
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/8/18	

DESCRIPTION

PMI MODEL: LM-50M4G-16-1W-SFF IS A HIGH POWER LIMITER OPERATING IN THE FREQUENCY RANGE 50 MHz TO 4 GHz,(USABLE TO 11 GHz) WITH 1W (+30 dBm) OF CW POWER HANDLING (USABLE TO 4W), AND 32W PEAK POWER (+45dBm), PULSE WIDTH 1 µSec, Duty Cycle 0.1%. THIS COMPACT HOUSING IS FITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

• FREQUENCY RANGE	50 MHz to 4 GHz (Usable to 11GHz)
• POWER HANDLING	1W (+30 dBm), CW (Usable to 4W Max.)
	32W Peak (+45dBm), Pulse Width 1µs, Duty Cycle 0.1%
• INSERTION LOSS	1.7 dB Max.
• VSWR (IN/OUT)	1.80:1 Max.
• FLAT LEAKAGE POWER	+22 dBm Typ.,
• RECOVERY TIME	50 ns Max.
• CONNECTORS	SMA FEMALE
• PACKAGE SIZE	1.00" x 0.68" x 0.35"
• PACKAGE FINISH	BLUE PAINT



ENVIRONMENTAL RATINGS

• TEMPERATURE:	-40 °C TO +85 °C (OPERATING) -55 °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
• ALTITUDE:	MIL-STD-202, METHOD 105C COND. B
• TEMPERATURE CYCLE:	MIL-STD-202, METHOD 107D COND. A

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: (301)-662-5019, FAX: (301)-662-1731
WEB: www.pml-rf.com, EMAIL: sales@pml-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN NJA	6/8/18
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE
LM-50M4G-16-1W-SFF
50 MHz to 4 GHz 1W CW Power Limiter

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27034666	A1

SCALE N:S SHEET 1 OF 1

Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-40°C	+85°C	
1	Frequency Range:	50MHz to 4 GHz (Usable to 11GHz)	Spec 50 MHz to 4 GHz Test 50MHz to 11 GHz	Spec 50MHz to 4 GHz Test 50MHz to 11 GHz	Spec 50MHz to 4 GHz Test 50MHz to 11 GHz	
2	Power Handling	1W (+30 dBm), CW (Usable to 4W Max)	Pass See Graphs	Pass See Graphs	Pass See Graphs	
		32W Peak (+45dBm) Pulse Width 1us, 0.1% Duty Cycle	Pass See Plots	Pass See Plots	Pass See Plots	
3	Insertion Loss	1.7 dB Max.	1.44 dB = 50MHz to 4 GHz See Graph	1.41 dB = 50MHz to 4 GHz See Graph	1.5 dB = 50MHz to 4 GHz See Graph	
			1.65 dB = 50MHz to 11 GHz See Graph	1.52 dB = 50MHz to 11 GHz See Graph	1.72 dB = 50MHz to 11 GHz See Graph	
4	VSWR (in/out)	1.8:1 Max.	1.8 :1 = 50MHz to 4 GHz See Graph 1.8 :1 = 50MHz to 11 GHz See Graph	1.79 :1 = 50MHz to 4 GHz See Graph 1.79 :1 = 50MHz to 11 GHz See Graph	1.8 :1 = 50MHz to 4 GHz See Graph 1.8 :1 = 50MHz to 11 GHz See Graph	
5	Flat Leakage Power	+22 dBm Typ.	23.27 dBm = 1 Watt See Graphs 30.2 dBm = 4 Watts See Graphs	23.62 dBm = 1 Watt See Graphs 29.4 dBm = 4 Watts See Graphs	23.42 dBm = 1 Watt See Graphs 29.5 dBm = 4 Watts See Graphs	
6	Recovery Time	50 ns Max.	11.01 ns See Plots	11.01 ns See Plots	11.01 ns See Plots	

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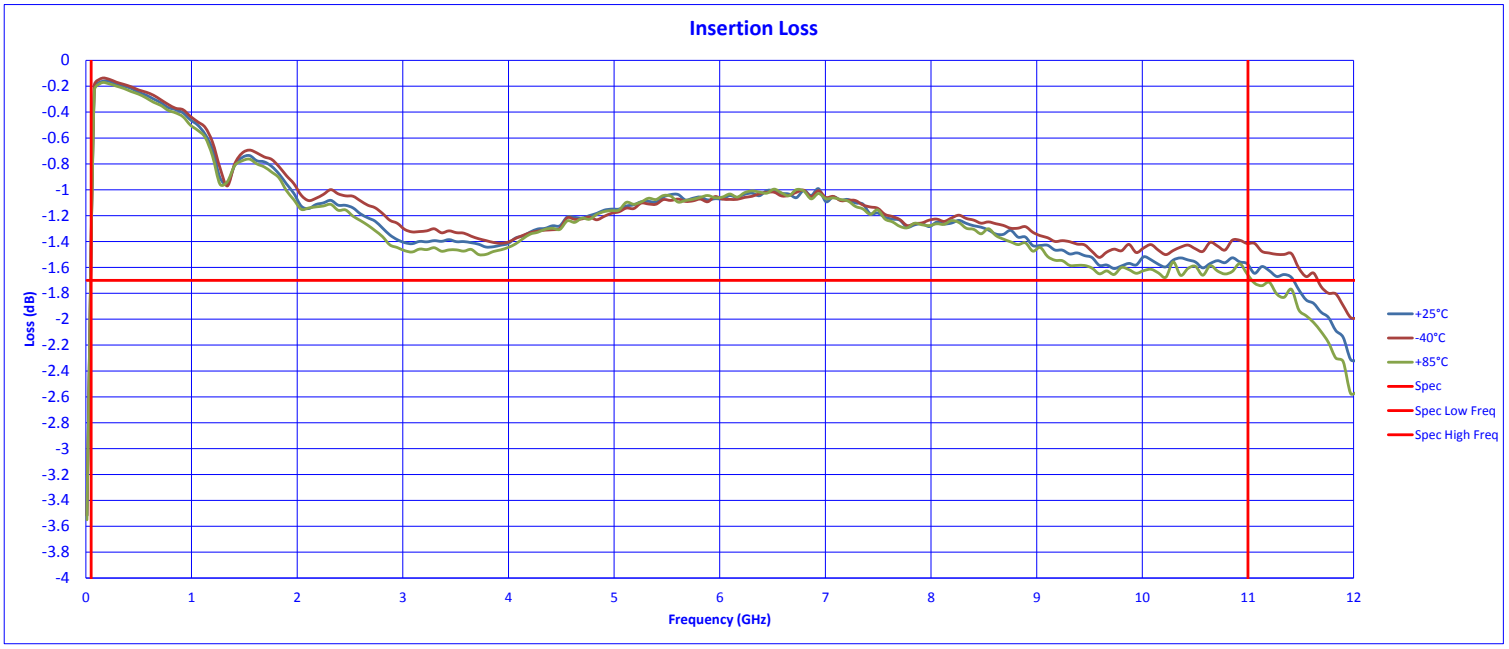

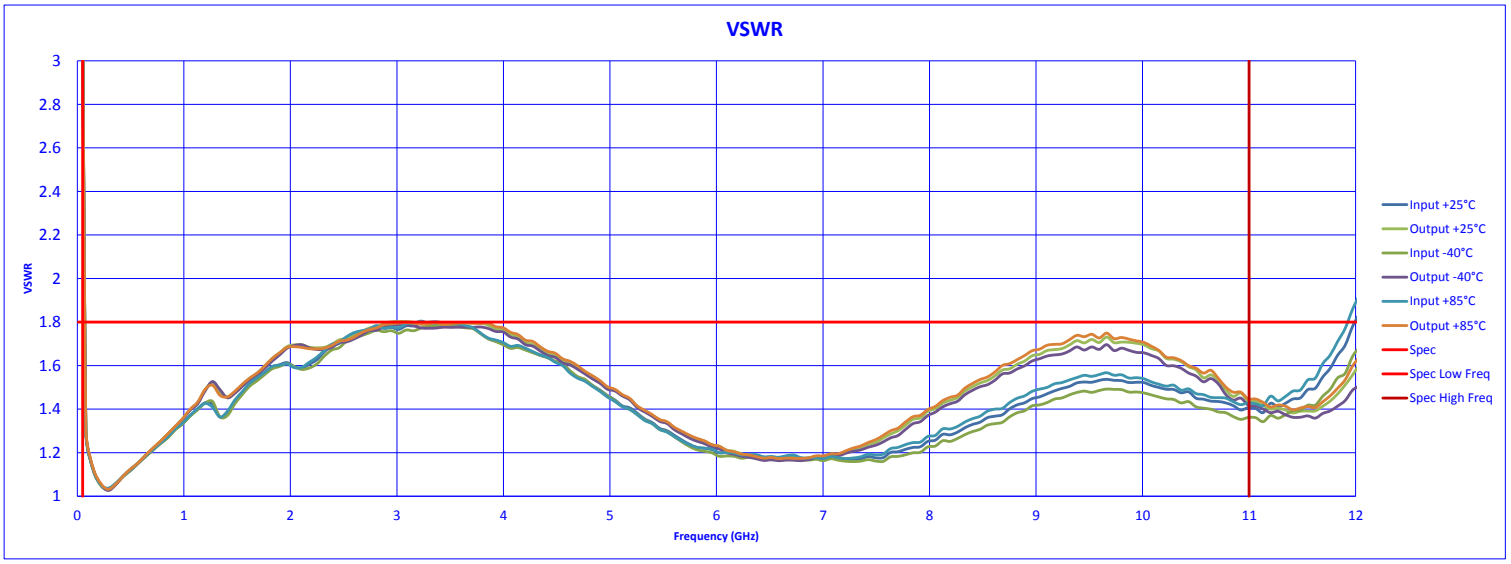

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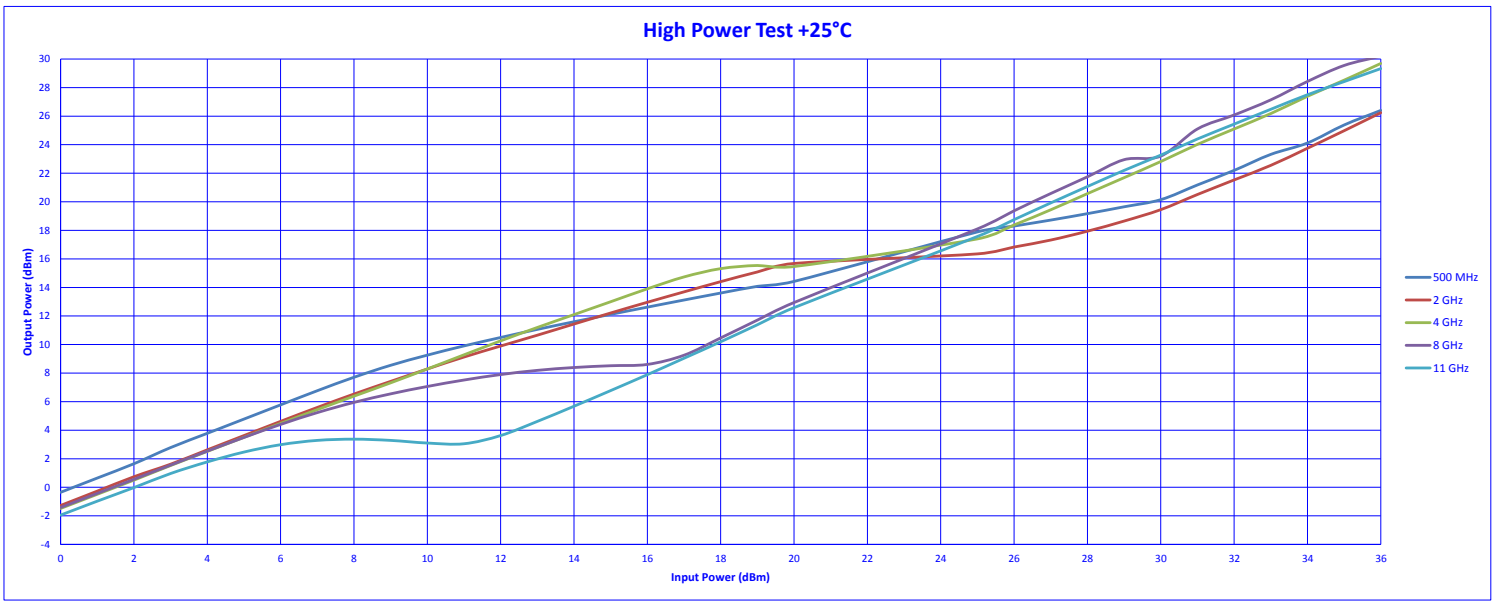

High Power Test																
500 MHz			2 GHz			4 GHz			8 GHz			11 GHz				
Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss		
0	-0.35	0.35	0	-1.27	1.27	0	-1.48	1.48	0	-1.42	1.42	0	-1.95	1.95		
1	0.65	0.35	1	-0.27	1.27	1	-0.49	1.49	1	-0.43	1.43	1	-0.97	1.97		
2	1.65	0.35	2	0.74	1.26	2	0.50	1.50	2	0.56	1.44	2	-0.02	2.02		
3	2.78	0.22	3	1.62	1.38	3	1.53	1.47	3	1.55	1.45	3	0.97	2.03		
4	3.78	0.22	4	2.62	1.38	4	2.52	1.48	4	2.53	1.47	4	1.78	2.22		
5	4.78	0.22	5	3.62	1.38	5	3.50	1.50	5	3.49	1.51	5	2.47	2.53		
6	5.78	0.22	6	4.62	1.38	6	4.48	1.52	6	4.40	1.60	6	2.99	3.01		
7	6.77	0.23	7	5.60	1.41	7	5.44	1.56	7	5.23	1.77	7	3.29	3.71		
8	7.71	0.29	8	6.53	1.47	8	6.38	1.62	8	5.95	2.05	8	3.37	4.63		
9	8.55	0.45	9	7.42	1.58	9	7.32	1.68	9	6.55	2.45	9	3.29	5.72		
10	9.26	0.74	10	8.29	1.71	10	8.29	1.71	10	7.06	2.94	10	3.10	6.90		
11	9.90	1.10	11	9.13	1.87	11	9.28	1.72	11	7.51	3.49	11	3.05	7.95		
12	10.49	1.51	12	9.90	2.10	12	10.26	1.74	12	7.90	4.10	12	3.63	8.37		
13	11.06	1.94	13	10.66	2.35	13	11.20	1.80	13	8.19	4.81	13	4.62	8.38		
14	11.60	2.40	14	11.44	2.56	14	12.10	1.90	14	8.39	5.61	14	5.68	8.32		
15	12.11	2.89	15	12.21	2.79	15	13.00	2.00	15	8.52	6.48	15	6.78	8.22		
16	12.62	3.38	16	12.96	3.04	16	13.90	2.10	16	8.61	7.39	16	7.89	8.11		
17	13.12	3.88	17	13.69	3.31	17	14.74	2.26	17	9.25	7.75	17	9.04	7.96		
18	13.61	4.39	18	14.41	3.59	18	15.32	2.68	18	10.46	7.54	18	10.20	7.81		
19	14.08	4.92	19	15.08	3.92	19	15.54	3.46	19	11.71	7.29	19	11.39	7.61		
20	14.42	5.58	20	15.68	4.32	20	15.47	4.54	20	12.94	7.06	20	12.58	7.42		
25	17.89	7.11	25	16.35	8.65	25	17.40	7.60	25	18.10	6.90	25	17.57	7.43		
26	18.30	7.70	26	16.83	9.17	26	18.38	7.62	26	19.37	6.63	26	18.75	7.25		
27	18.72	8.28	27	17.32	9.68	27	19.44	7.56	27	20.58	6.42	27	19.92	7.08		
28	19.17	8.83	28	17.94	10.06	28	20.57	7.43	28	21.75	6.25	28	21.07	6.93		
29	19.65	9.35	29	18.65	10.35	29	21.69	7.31	29	22.95	6.05	29	22.20	6.80		
30	20.15	9.85	30	19.45	10.55	30	22.82	7.18	30	23.20	6.80	30	23.27	6.73		1Watt
31	21.18	9.82	31	20.51	10.49	31	24.02	6.98	31	25.10	5.90	31	24.40	6.60		1.25Watts
32	22.20	9.80	32	21.53	10.47	32	25.10	6.90	32	26.08	5.92	32	25.44	6.56		1.6Watts
33	23.32	9.68	33	22.55	10.45	33	26.18	6.82	33	27.14	5.86	33	26.48	6.52		2Watts
34	24.12	9.88	34	23.75	10.25	34	27.39	6.61	34	28.43	5.57	34	27.50	6.50		2.5Watts
35	25.38	9.62	35	24.98	10.02	35	28.52	6.48	35	29.55	5.45	35	28.42	6.58		3Watts
36	26.40	9.60	36	26.24	9.76	36	29.69	6.31	36	30.20	5.80	36	29.33	6.67		4Watts
DO NOT EXCEED																

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Typical Characteristics
ON
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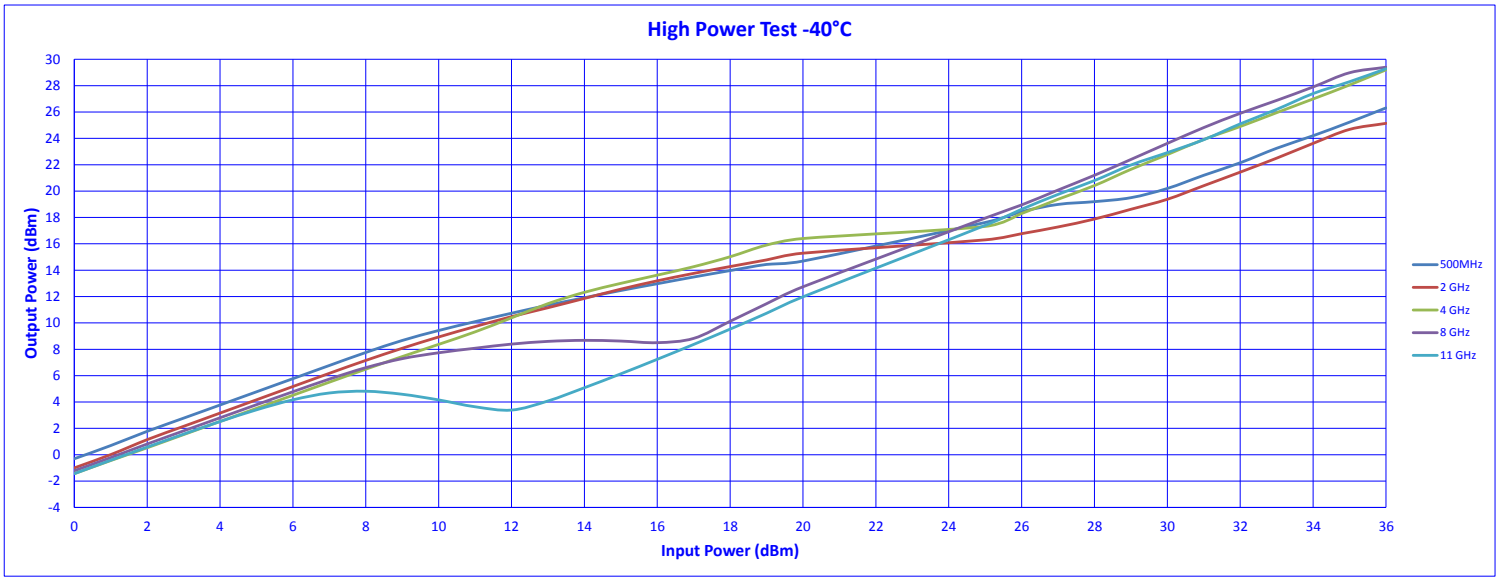

High Power Test															
500MHz			2 GHz			4 GHz			8 GHz			11 GHz			
Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	
0	-0.31	0.31	0	-1.00	1.00	0	-1.44	1.44	0	-1.21	1.21	0	-1.44	1.44	
1	0.69	0.31	1	0.01	0.99	1	-0.44	1.44	1	-0.22	1.22	1	-0.42	1.42	
2	1.78	0.22	2	1.14	0.86	2	0.53	1.47	2	0.81	1.19	2	0.58	1.42	
3	2.77	0.23	3	2.15	0.85	3	1.53	1.47	3	1.81	1.19	3	1.56	1.44	
4	3.77	0.23	4	3.16	0.84	4	2.52	1.48	4	2.80	1.20	4	2.52	1.48	
5	4.77	0.23	5	4.17	0.83	5	3.52	1.48	5	3.79	1.21	5	3.41	1.60	
6	5.77	0.23	6	5.17	0.83	6	4.51	1.49	6	4.78	1.22	6	4.16	1.84	
7	6.77	0.23	7	6.17	0.83	7	5.50	1.50	7	5.74	1.26	7	4.68	2.32	
8	7.76	0.24	8	7.15	0.85	8	6.49	1.51	8	6.60	1.40	8	4.81	3.19	
9	8.67	0.33	9	8.07	0.93	9	7.45	1.55	9	7.29	1.71	9	4.59	4.41	
10	9.42	0.58	10	8.93	1.07	10	8.37	1.63	10	7.74	2.26	10	4.16	5.84	
11	10.10	0.90	11	9.72	1.28	11	9.32	1.68	11	8.08	2.92	11	3.64	7.36	
12	10.74	1.27	12	10.47	1.53	12	10.38	1.62	12	8.39	3.61	12	3.39	8.61	
13	11.35	1.66	13	11.15	1.85	13	11.46	1.54	13	8.60	4.40	13	4.08	8.92	
14	11.91	2.09	14	11.86	2.15	14	12.32	1.68	14	8.68	5.32	14	5.08	8.92	
15	12.46	2.54	15	12.56	2.44	15	13.00	2.00	15	8.62	6.38	15	6.14	8.86	
16	12.97	3.03	16	13.19	2.81	16	13.62	2.38	16	8.50	7.50	16	7.24	8.76	
17	13.48	3.52	17	13.76	3.24	17	14.27	2.73	17	8.82	8.18	17	8.37	8.63	
18	13.97	4.03	18	14.28	3.72	18	15.02	2.98	18	10.12	7.88	18	9.53	8.47	
19	14.44	4.56	19	14.78	4.22	19	15.90	3.10	19	11.46	7.54	19	10.73	8.27	
20	14.69	5.31	20	15.29	4.71	20	16.40	3.60	20	12.74	7.26	20	11.98	8.02	
25	17.62	7.38	25	16.30	8.70	25	17.32	7.68	25	17.95	7.05	25	17.40	7.60	
26	18.44	7.56	26	16.77	9.23	26	18.30	7.70	26	18.95	7.05	26	18.62	7.38	
27	18.99	8.01	27	17.28	9.72	27	19.38	7.62	27	20.08	6.92	27	19.75	7.25	
28	19.20	8.80	28	17.88	10.12	28	20.42	7.58	28	21.20	6.80	28	20.80	7.20	
29	19.50	9.50	29	18.62	10.38	29	21.65	7.35	29	22.40	6.60	29	21.98	7.02	
30	20.20	9.80	30	19.38	10.62	30	22.77	7.23	30	23.62	6.38	30	22.92	7.08	1Watt
31	21.20	9.80	31	20.41	10.59	31	23.92	7.08	31	24.82	6.18	31	23.90	7.10	1.25Watts
32	22.15	9.85	32	21.44	10.56	32	24.90	7.10	32	25.90	6.10	32	25.10	6.90	1.6Watts
33	23.25	9.75	33	22.50	10.50	33	25.95	7.05	33	26.88	6.12	33	26.20	6.80	2Watts
34	24.20	9.80	34	23.62	10.38	34	26.99	7.01	34	27.90	6.10	34	27.40	6.60	2.5Watts
35	25.23	9.77	35	24.68	10.32	35	28.05	6.95	35	28.98	6.02	35	28.30	6.70	3Watts
36	26.31	9.69	36	25.14	10.86	36	29.20	6.80	36	29.40	6.60	36	29.28	6.72	4Watts
DO NOT EXCEED															

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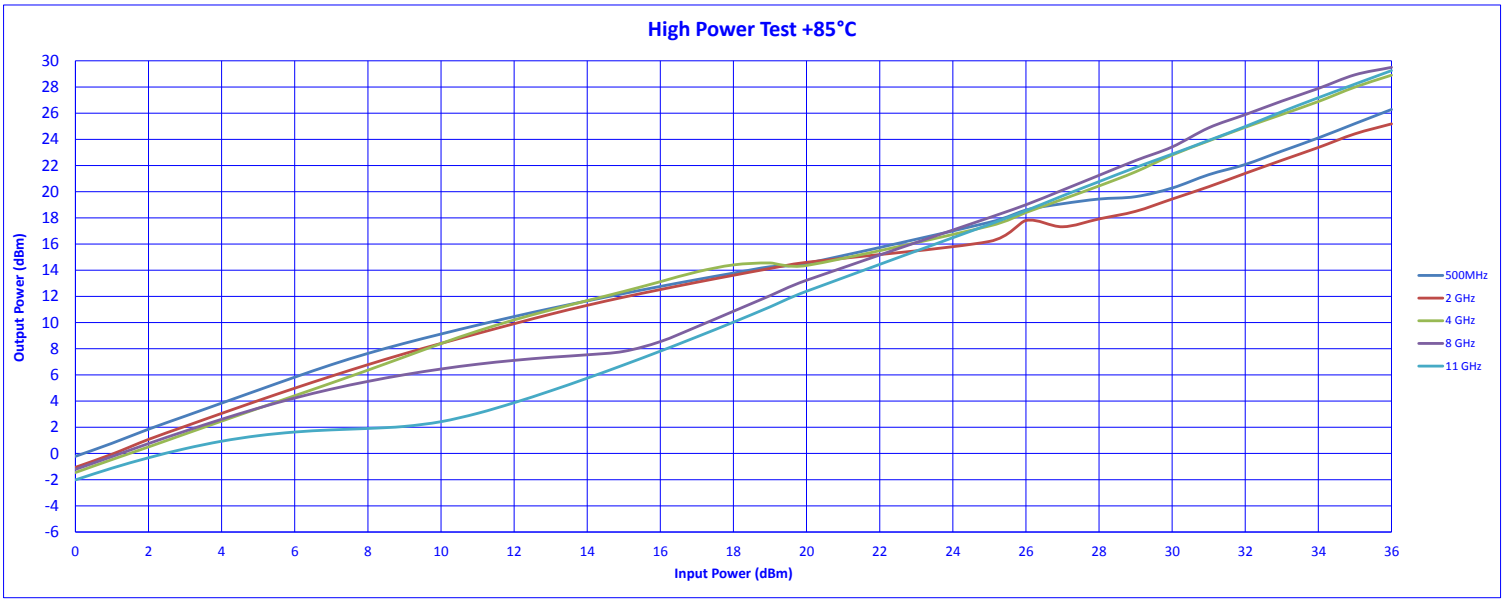

High Power Test															
500MHz			2 GHz			4 GHz			8 GHz			11 GHz			
Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	Pin(dBm)	Pout (dBm)	Loss	
0	-0.22	0.22	0	-1.06	1.06	0	-1.45	1.45	0	-1.21	1.21	0	-2.02	2.02	
1	0.78	0.22	1	-0.05	1.05	1	-0.47	1.47	1	-0.24	1.24	1	-1.12	2.12	
2	1.86	0.14	2	1.07	0.93	2	0.50	1.50	2	0.76	1.24	2	-0.33	2.33	
3	2.85	0.15	3	2.07	0.93	3	1.49	1.51	3	1.71	1.29	3	0.37	2.63	
4	3.85	0.15	4	3.06	0.94	4	2.47	1.53	4	2.61	1.39	4	0.94	3.06	
5	4.84	0.16	5	4.04	0.96	5	3.45	1.55	5	3.46	1.54	5	1.36	3.64	
6	5.83	0.17	6	4.99	1.01	6	4.41	1.59	6	4.24	1.76	6	1.64	4.36	
7	6.78	0.22	7	5.90	1.10	7	5.38	1.62	7	4.92	2.08	7	1.80	5.20	
8	7.64	0.36	8	6.78	1.22	8	6.37	1.63	8	5.51	2.49	8	1.91	6.09	
9	8.42	0.58	9	7.62	1.38	9	7.38	1.62	9	6.02	2.98	9	2.07	6.93	
10	9.13	0.87	10	8.41	1.59	10	8.40	1.60	10	6.45	3.55	10	2.43	7.57	
11	9.81	1.19	11	9.17	1.83	11	9.35	1.65	11	6.82	4.18	11	3.07	7.93	
12	10.46	1.54	12	9.91	2.09	12	10.20	1.80	12	7.11	4.89	12	3.88	8.12	
13	11.08	1.93	13	10.64	2.36	13	10.96	2.04	13	7.35	5.65	13	4.78	8.22	
14	11.66	2.34	14	11.32	2.68	14	11.68	2.32	14	7.54	6.46	14	5.75	8.25	
15	12.22	2.78	15	11.94	3.06	15	12.38	2.62	15	7.80	7.20	15	6.77	8.23	
16	12.76	3.24	16	12.52	3.48	16	13.12	2.88	16	8.55	7.45	16	7.82	8.18	
17	13.29	3.72	17	13.08	3.92	17	13.88	3.13	17	9.68	7.32	17	8.91	8.09	
18	13.78	4.22	18	13.61	4.39	18	14.41	3.59	18	10.87	7.13	18	10.03	7.97	
19	14.27	4.73	19	14.13	4.87	19	14.56	4.45	19	12.05	6.95	19	11.20	7.80	
20	14.52	5.48	20	14.61	5.39	20	14.36	5.64	20	13.24	6.76	20	12.40	7.61	
25	17.66	7.34	25	16.20	8.80	25	17.38	7.62	25	18.02	6.98	25	17.50	7.50	
26	18.60	7.40	26	17.80	8.20	26	18.41	7.59	26	19.00	7.00	26	18.55	7.45	
27	19.08	7.92	27	17.32	9.68	27	19.42	7.58	27	20.12	6.88	27	19.68	7.32	
28	19.44	8.56	28	17.92	10.08	28	20.44	7.56	28	21.25	6.75	28	20.77	7.23	
29	19.62	9.38	29	18.50	10.50	29	21.52	7.48	29	22.38	6.62	29	21.85	7.15	
30	20.28	9.72	30	19.44	10.56	30	22.80	7.20	30	23.42	6.58	30	22.87	7.13	1Watt
31	21.30	9.70	31	20.38	10.62	31	23.88	7.12	31	24.88	6.12	31	23.92	7.08	1.25Watts
32	22.08	9.92	32	21.40	10.60	32	24.92	7.08	32	25.89	6.11	32	24.98	7.02	1.6Watts
33	23.10	9.90	33	22.40	10.60	33	25.90	7.10	33	26.92	6.08	33	26.11	6.89	2Watts
34	24.11	9.89	34	23.38	10.62	34	26.89	7.11	34	27.89	6.11	34	27.18	6.82	2.5Watts
35	25.20	9.80	35	24.42	10.58	35	27.99	7.01	35	28.93	6.07	35	28.22	6.78	3Watts
36	26.28	9.72	36	25.18	10.82	36	28.90	7.10	36	29.50	6.50	36	29.25	6.75	4Watts
DO NOT EXCEED															

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Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

Frequency 8GHz, Input Power +20dBm (0.1 Watt)
Input Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)
Rise Time Measured Value = 6 ns)

Frequency 8GHz, Input Power +20dBm (0.1 Watt)
Input Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)
Recovery (11 ns), Fall Time (4.19ns)

Green Signal = Video Output (Internal Signal Gen)
Yellow Signal = Video Output (Crystal Detector)

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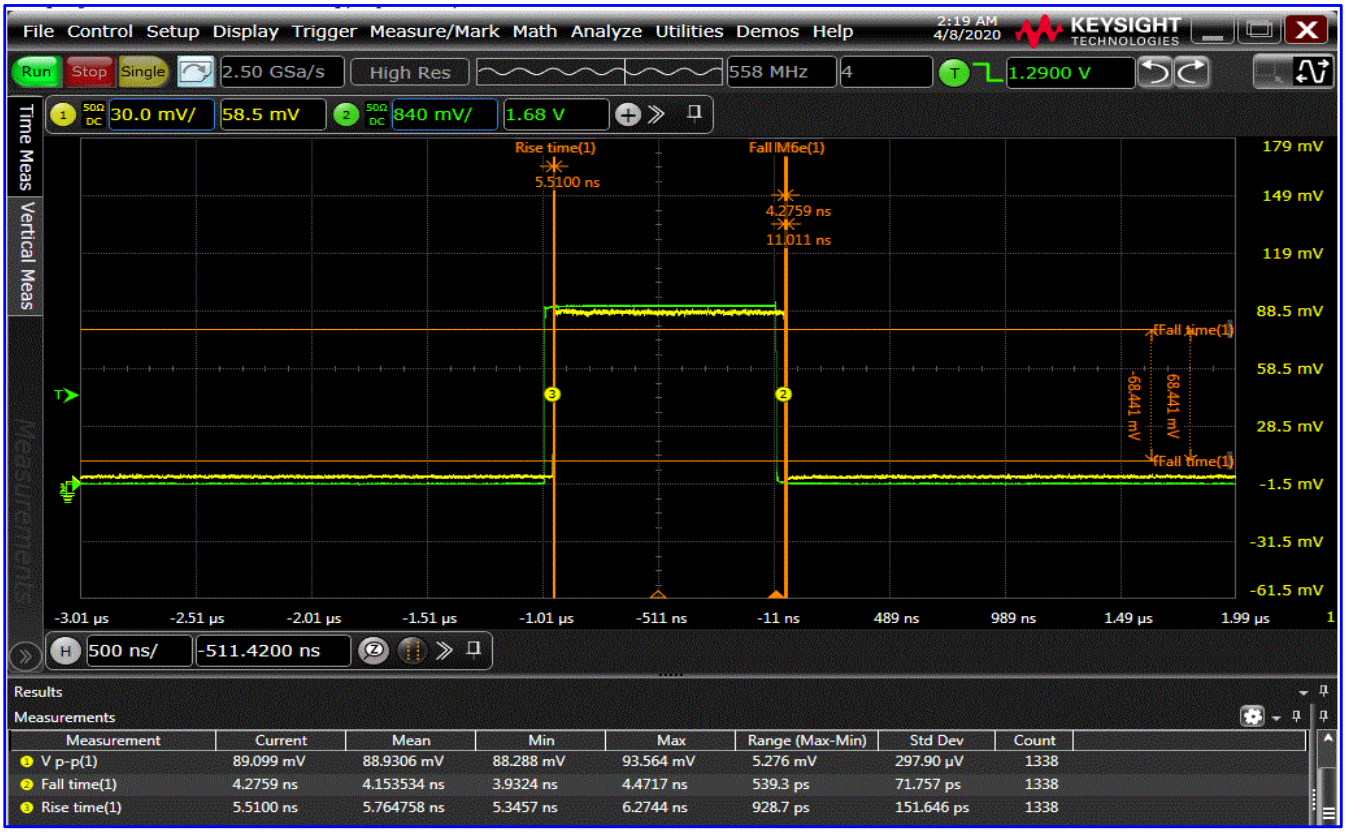
Frequency 8GHz, Input Power +20dBm (0.1 Watt)
Full Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)



Green Signal = Video Output (Internal Signal Gen)
Yellow Signal = Video Output (Crystal Detector)

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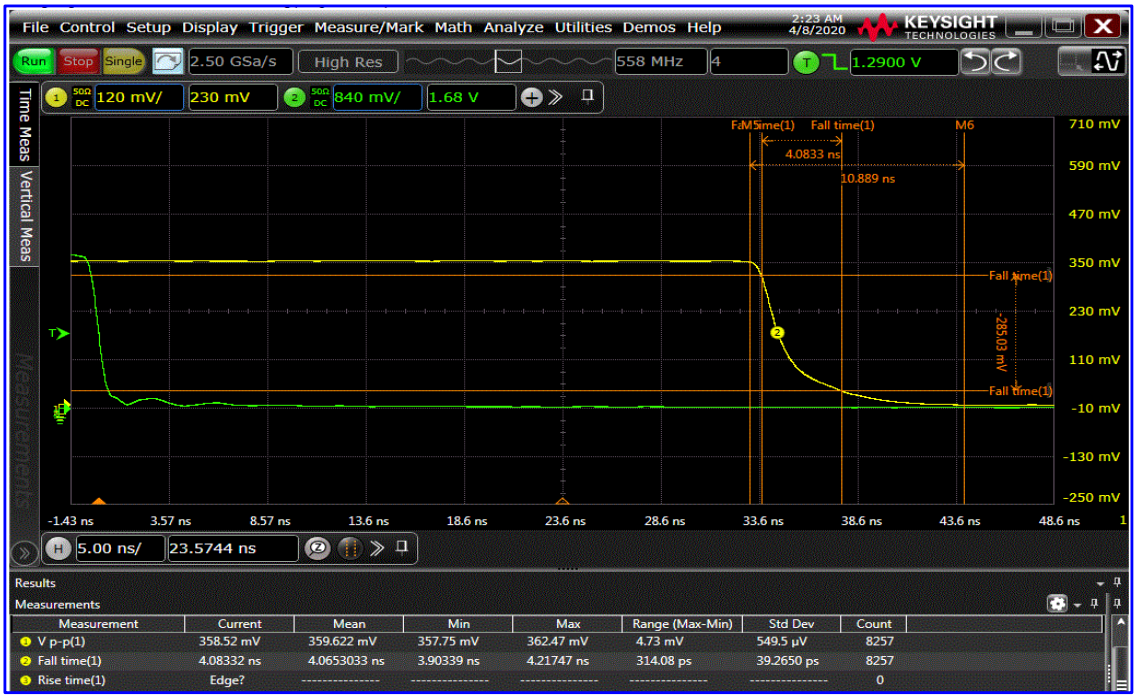
Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

Frequency 8GHz, Input Power +30dBm (1 Watt)
Input Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)
Rise Time Measured Value = (5.73ns)

Frequency 8GHz, Input Power +30dBm (1 Watt)
Input Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)
Recovery (10.88 ns), Fall Time (4.08 ns)



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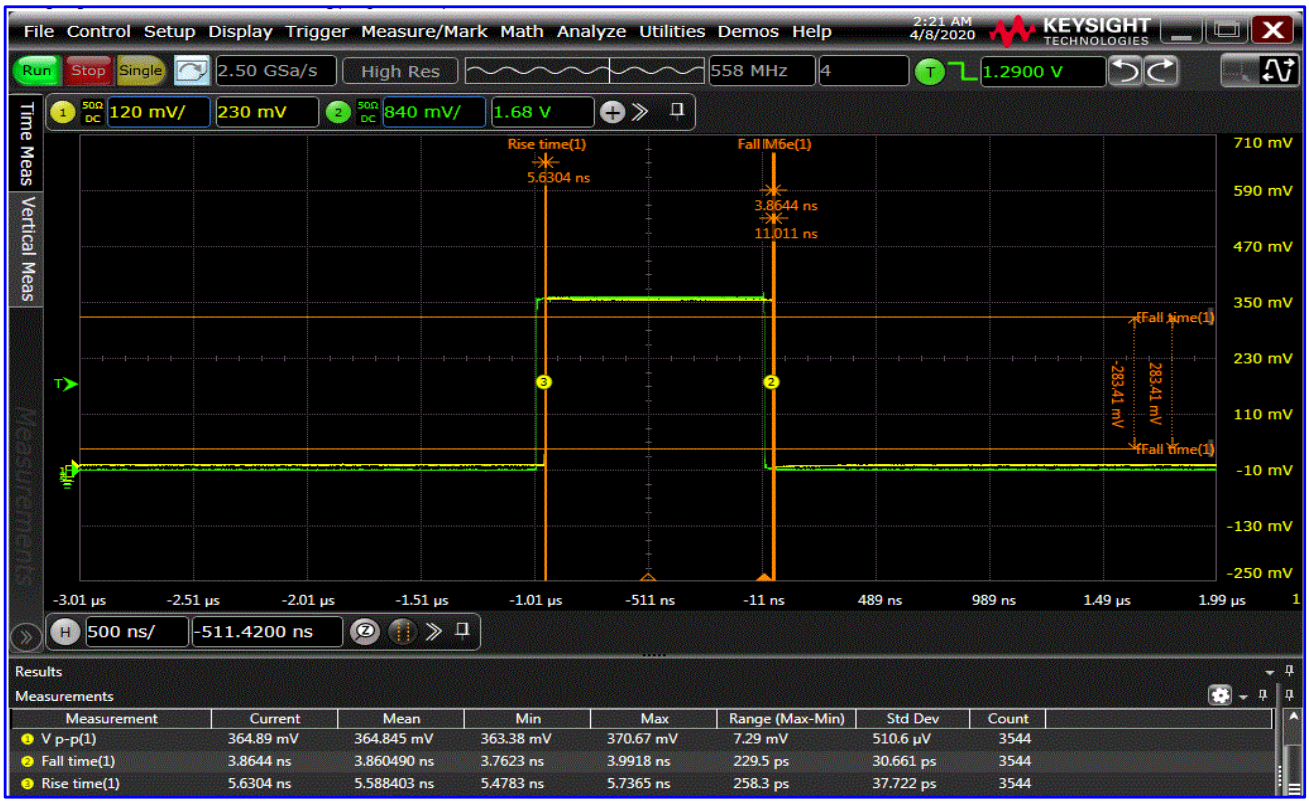
Frequency 8GHz, Input Power +30dBm (1 Watt)
Full Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)



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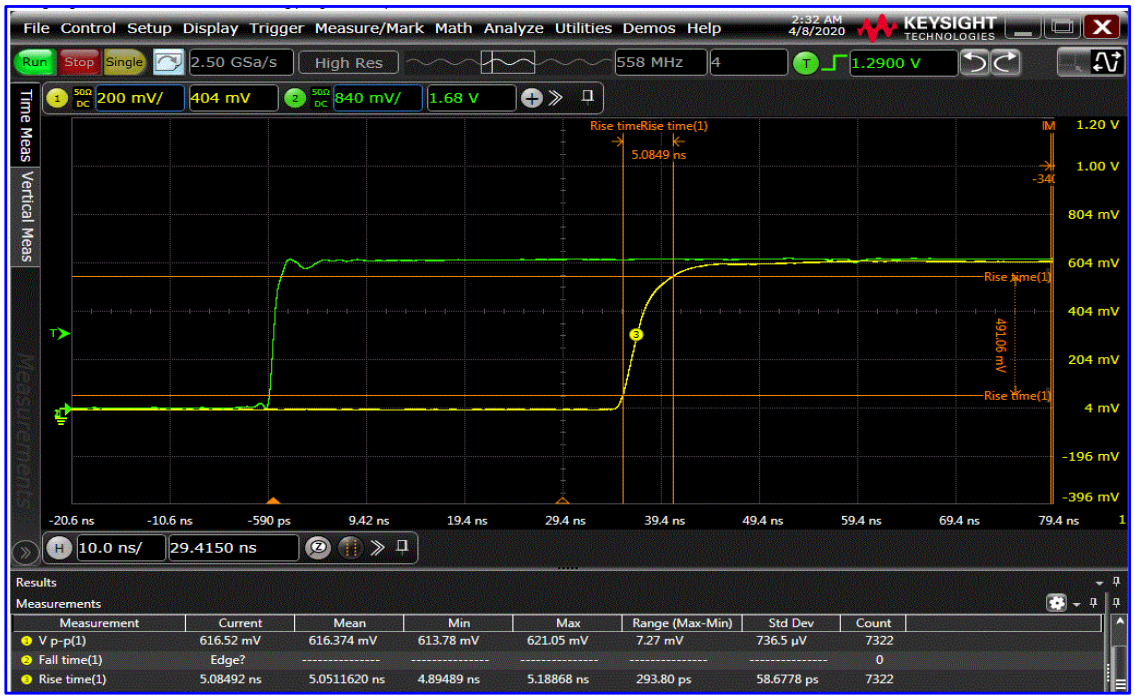
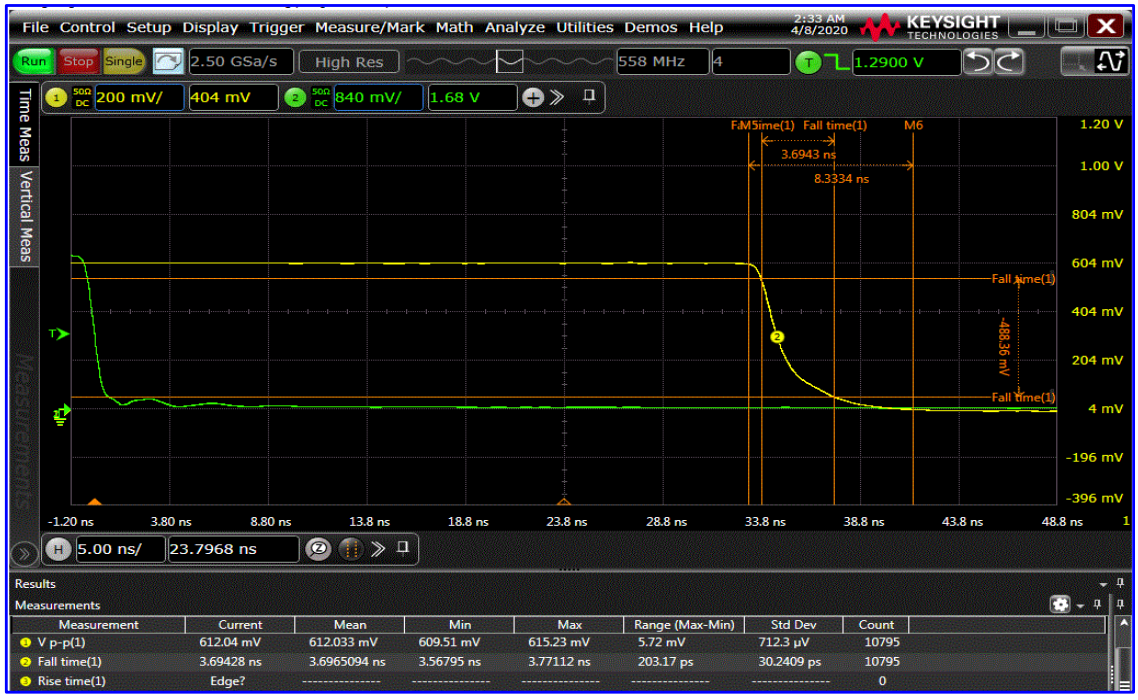
Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

Frequency 8GHz, Input Power +45dBm (32 Watts)
Input Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)
Rise Time Measured Value = (5.08 ns)



Frequency 8GHz, Input Power +45dBm (32 Watts)
Input Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)
Recovery (8.33ns), Fall Time (3.69ns)



Green Signal = Video Output (Internal Signal Gen)
Yellow Signal = Video Output (Crystal Detector)

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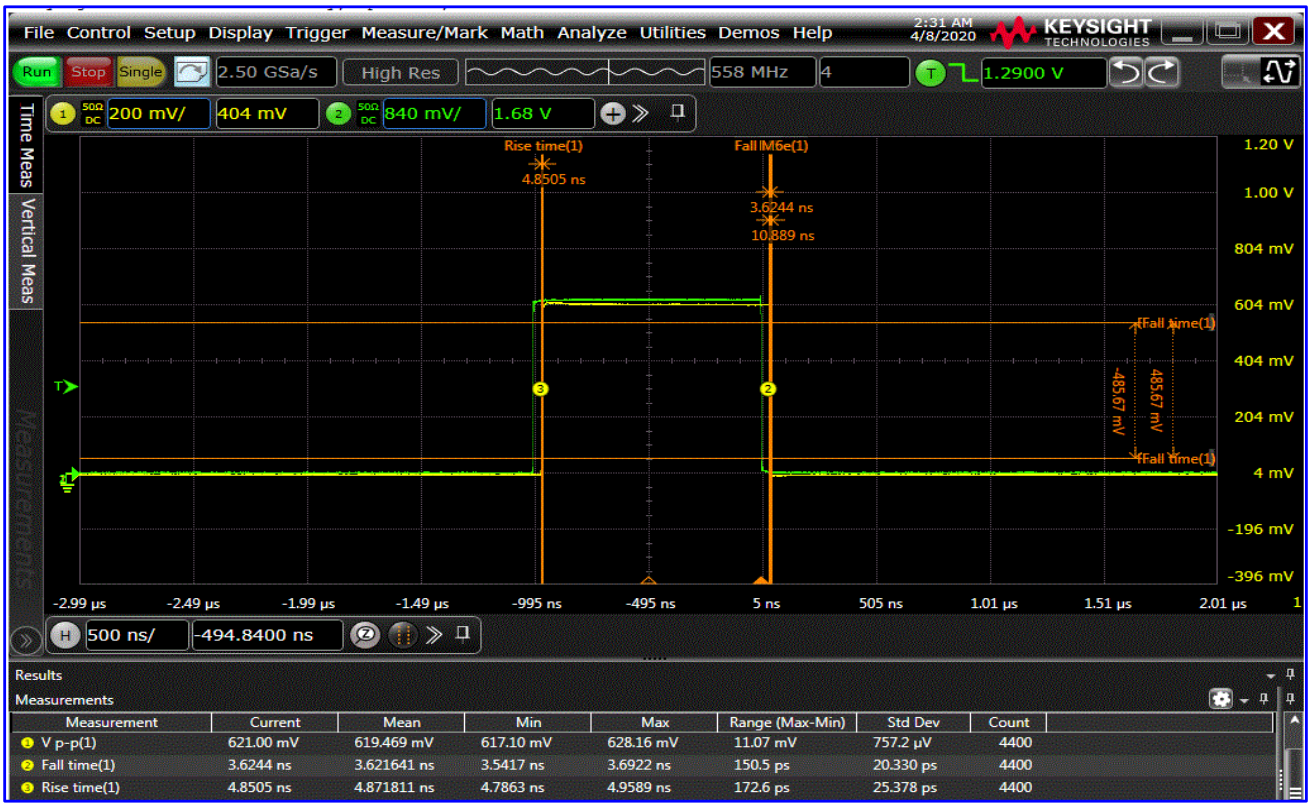
Typical Characteristics
ON
LM-50M4G-16-1W-SFF (Usable to 11GHz)

Frequency 8GHz, Input Power +45dBm (32 Watts)
Full Pulse (Pw 1µs, Duty Cycle 0.1%, Pulse Rate 1KHz)



Green Signal = Video Output (Internal Signal Gen)
Yellow Signal = Video Output (Crystal Detector)

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