



**TYPICAL CHARACTERISTICS
ON
LM-20M15G-100W-15DBM-HERM**

THE MODEL PMI LM-20M15G-100W-15DBM-HERM IS AN RF LIMITER THAT OPERATES IN THE RANGE OF FREQUENCIES FROM 20MHZ TO 15GHZ. THIS LIMITER CAN HANDLE UP TO 100W CW, FOR ALL TEMPERATURES (-55 ° TO +85 ° C) THE ENERGY INPUT PROVIDES LEAKS OF + 15DBM MAX. THIS MODEL HAS A LOW INSERTION LOSS OF 2.0DB AND A TYPICAL 100NS RECOVERY TIME.



August 10, 2026

Designed By: PMI Engineering

**Tested and Reported By:
Vanssea V.**

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Outline Drawing

DESCRIPTION:

PMI MODEL LM-20M15G-100W-15DBM-HERM IS A HERMETICALLY SEALED 20.0 MHz TO 15 GHz LIMITER. THIS PRODUCT PROVIDES 100 W CW POWER HANDLING, +15 dBm LEAKAGE, AND 1.80 dB INSERTION LOSS.

SPECIFICATIONS:

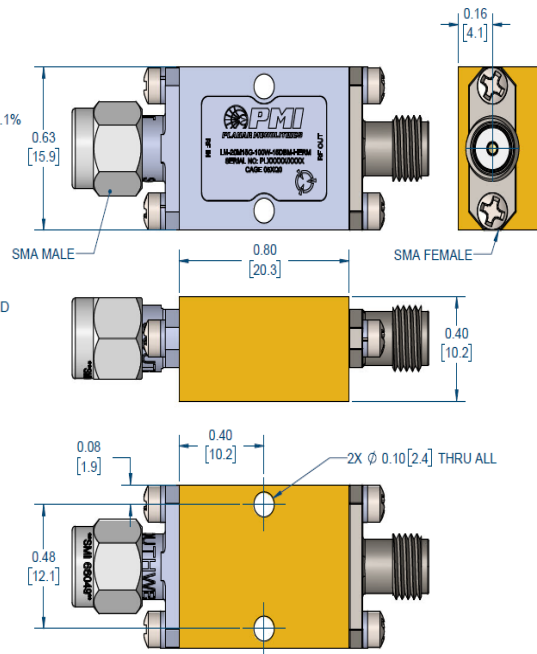
- FREQUENCY RANGE:..... 20.0 MHz TO 15 GHz
- RF POWER HANDLING:..... 100 W CW MAX
1 kW PEAK MAX (1 us PULSE WIDTH, 0.1% DUTY CYCLE)
- INSERTION LOSS @ -10 dBm INPUT POWER:..... 1.80 dB TYP
2.0 dB MAX
- RECOVERY TIME @ 1000 W PEAK POWER:..... 100 ns MAX
- LEAKAGE POWER:..... +15 dBm MAX AT 100 W CW
- VSWR @ -10 dBm INPUT POWER:..... 2.0:1 MAX
- LIMITING THRESHOLD:
P1dB:..... +5 dBm MIN
- CONNECTORS:..... SMA MALE/FEMALE (REMOVEABLE)
- FINISH:..... HERMETICALLY SEALED, GOLD PLATED
ENGRAVED MARKINGS
- WEIGHT:..... 2.0 OZ MAX

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

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

ZONE/REV.	DESCRIPTION	DATE	APPROVED
A1	ORIGINAL RELEASE	11/06/00	
B1	ECN # 20-0160	07/08/00	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	G. MENDEZ	11/06/00	OUTLINE	
CHECKED				
DATE	11/06/00	DATE	27/05/00	REV. B1
SCALE	2:1	SHEET 1 OF 1		



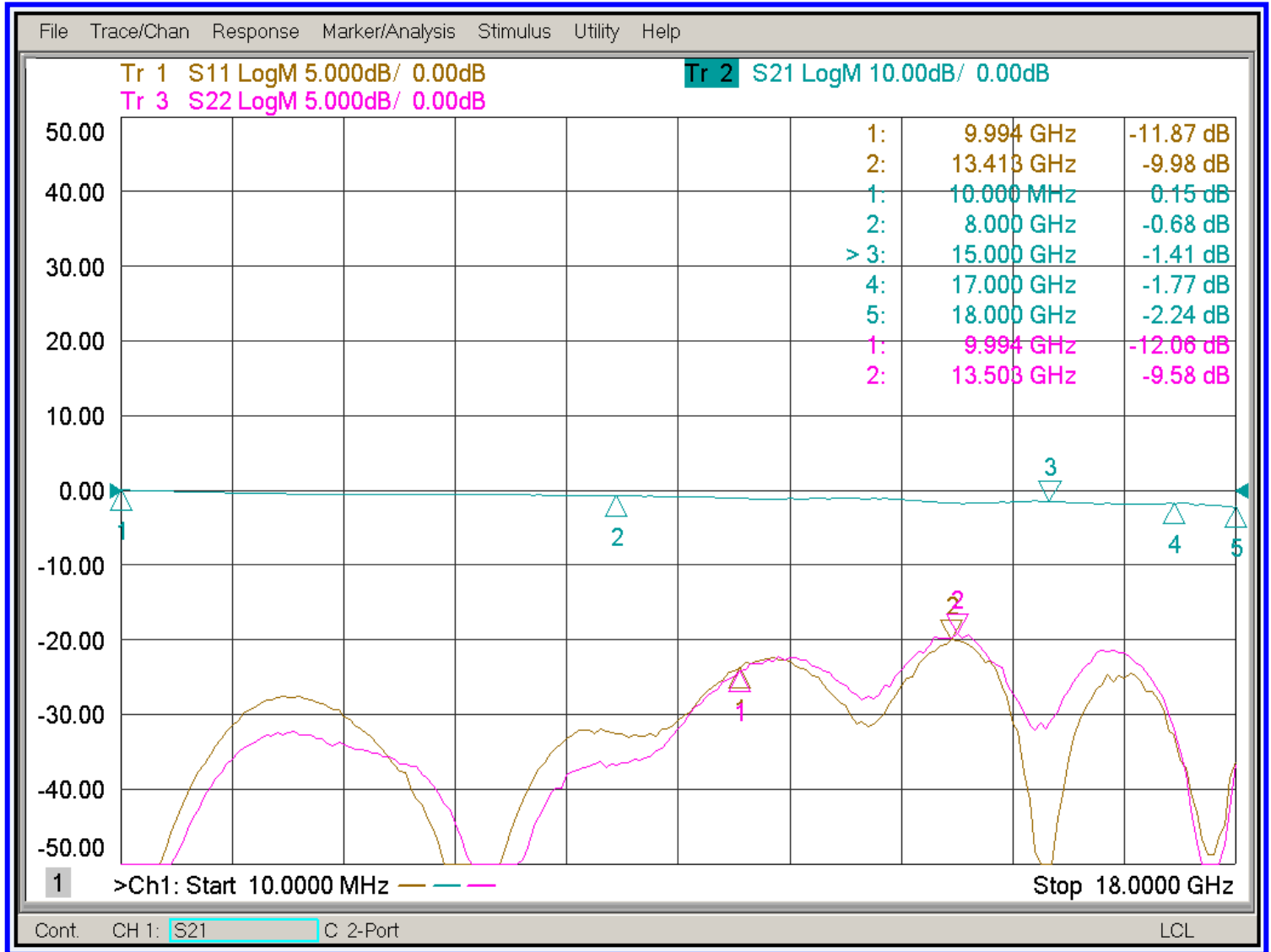
**TYPICAL CHARACTERISTICS
ON
LM-20M15G-100W-15DBM-HERM**

Technical Specifications

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	20 MHz to 15 GHz	20 MHz to 15 GHz (See Plot)	
2	RF Power Handling	100 W CW Max.	Pass (See Graphs)	
		1 kW Peak Min (1 us PW, 0.1% DC)	Pass By Design	
3	Insertion Loss: @ -10 dBm INPUT POWER	1.80 dB Typ 2.0 dB Max	1.41 dB (See Plot)	
4	Recovery Time:	100 ns Max.	91.11ns (See Plots)	
5	Leakage Power	+15 dBm Max	+14.98 dBm (See Graphs)	
6	Input /Output VSWR:	2.0:1 MAXIMUM (AT -10dBm INPUT)	Input 1.93:1 Output 1.99:1 (See Plot)	
7	Limiting Threshold: (P1dB)	+5 dBm Minimum	Pass (See Graphs)	

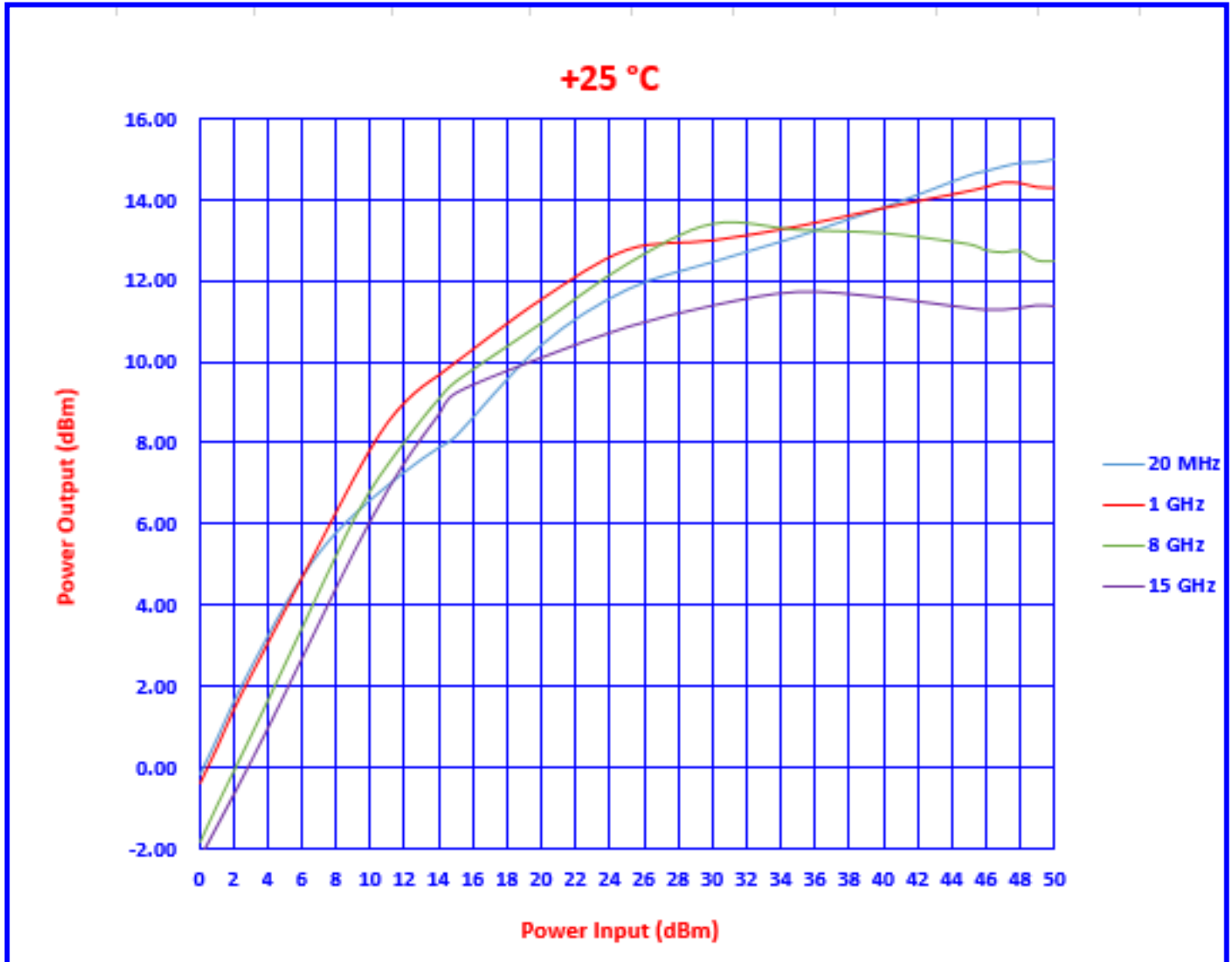
TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

(J1-J2) Insertion Loss and Return Loss



Graph High Power Test (CW)

**TYPICAL CHARACTERISTICS
ON
LM-20M15G-100W-15DBM-HERM**



Data High Power Test (CW)

**TYPICAL CHARACTERISTICS
ON
LM-20M15G-100W-15DBM-HERM**

+25 °C											
20 MHz			1GHz			8GHz			15 GHz		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS
0	-0.17	0.17	0	-0.41	0.41	0	-1.82	1.82	0	-2.21	2.21
1	0.71	0.29	1	0.48	0.52	1	-0.91	1.91	1	-1.42	2.42
2	1.64	0.36	2	1.43	0.57	2	-0.05	2.05	2	-0.62	2.62
3	2.47	0.53	3	2.27	0.73	3	0.82	2.18	3	0.18	2.82
4	3.26	0.74	4	3.08	0.92	4	1.70	2.31	4	1.02	2.98
5	4.02	0.98	5	3.89	1.11	5	2.59	2.41	5	1.87	3.13
6	4.71	1.29	6	4.70	1.30	6	3.48	2.52	6	2.74	3.26
7	5.30	1.70	7	5.51	1.49	7	4.38	2.62	7	3.61	3.39
8	5.80	2.20	8	6.32	1.68	8	5.27	2.73	8	4.48	3.52
9	6.22	2.78	9	7.12	1.88	9	6.12	2.88	9	5.33	3.67
10	6.60	3.40	10	7.87	2.13	10	6.86	3.14	10	6.13	3.87
11	6.95	4.05	11	8.51	2.49	11	7.48	3.52	11	6.87	4.13
12	7.29	4.71	12	9.01	2.99	12	8.04	3.96	12	7.56	4.44
13	7.60	5.40	13	9.39	3.61	13	8.60	4.40	13	8.17	4.83
14	7.88	6.12	14	9.68	4.32	14	9.10	4.90	14	8.74	5.26
15	8.17	6.83	15	10.00	5.00	15	9.53	5.47	15	9.26	5.74
20	10.41	9.59	20	11.55	8.45	20	10.96	9.04	20	10.13	9.87
25	11.77	13.23	25	12.77	12.23	25	12.41	12.59	25	10.88	14.12
30	12.45	17.55	30	13.00	17.00	30	13.40	16.60	30	11.41	18.59
35	13.08	21.92	35	13.35	21.65	35	13.25	21.75	35	11.75	23.25
40	13.79	26.21	40	13.80	26.20	40	13.17	26.83	40	11.61	28.39
45	14.58	30.42	45	14.22	30.78	45	12.90	32.10	45	11.35	33.65
46	14.69	31.31	46	14.32	31.68	46	12.75	33.25	46	11.31	34.69
47	14.8	32.20	47	14.43	32.57	47	12.7	34.30	47	11.31	35.69
48	14.89	33.11	48	14.42	33.58	48	12.73	35.27	48	11.35	36.65
49	14.91	34.09	49	14.32	34.68	49	12.5	36.50	49	11.42	37.58
50	14.98	35.02	50	14.30	35.70	50	12.48	38	50	11.40	38.60

P1dB

20W

25W

32W

40W

50W

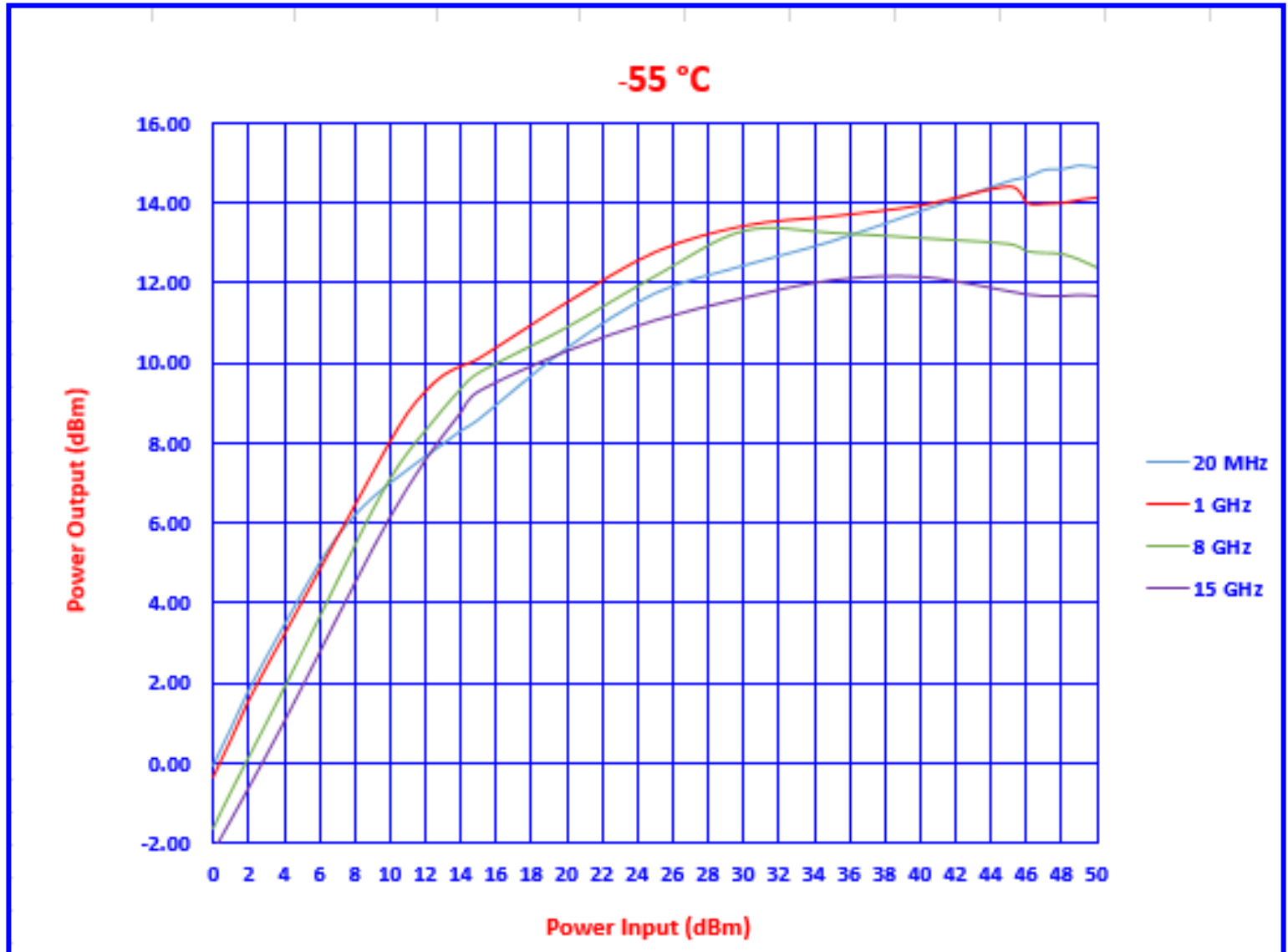
63W

80W

100W

**TYPICAL CHARACTERISTICS
ON
LM-20M15G-100W-15DBM-HERM**

Graph High Power Test (CW)



TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Data High Power Test (CW)

-55 °C											
20 MHz			1GHz			8GHz			15 GHz		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS
0	-0.06	0.06	0	-0.34	0.34	0	-1.61	1.61	0	-2.23	2.23
1	0.86	0.14	1	0.58	0.42	1	-0.70	1.70	1	-1.44	2.44
2	1.81	0.19	2	1.56	0.44	2	0.15	1.85	2	-0.64	2.64
3	2.64	0.36	3	2.39	0.61	3	1.01	1.99	3	0.17	2.83
4	3.44	0.56	4	3.20	0.80	4	1.88	2.12	4	1.00	3.00
5	4.23	0.77	5	4.00	1.00	5	2.76	2.24	5	1.86	3.14
6	4.98	1.02	6	4.81	1.19	6	3.65	2.35	6	2.73	3.27
7	5.66	1.35	7	5.62	1.38	7	4.55	2.45	7	3.60	3.40
8	6.19	1.81	8	6.43	1.57	8	5.45	2.55	8	4.47	3.53
9	6.63	2.37	9	7.23	1.77	9	6.33	2.67	9	5.32	3.68
10	7.01	2.99	10	8.03	1.97	10	7.13	2.87	10	6.13	3.87
11	7.34	3.66	11	8.75	2.25	11	7.78	3.22	11	6.87	4.13
12	7.67	4.33	12	9.28	2.72	12	8.34	3.66	12	7.56	4.44
13	7.98	5.02	13	9.68	3.32	13	8.88	4.12	13	8.17	4.83
14	8.31	5.69	14	9.91	4.09	14	9.38	4.62	14	8.75	5.25
15	8.59	6.41	15	10.10	4.90	15	9.78	5.22	15	9.27	5.73
20	10.38	9.62	20	11.50	8.50	20	10.92	9.08	20	10.28	9.72
25	11.75	13.25	25	12.76	12.24	25	12.20	12.80	25	11.05	13.95
30	12.44	17.56	30	13.41	16.59	30	13.33	16.67	30	11.61	18.39
35	13.05	21.95	35	13.65	21.35	35	13.28	21.72	35	12.05	22.95
40	13.80	26.20	40	13.92	26.08	40	13.15	26.85	40	12.13	27.87
45	14.55	30.45	45	14.39	30.61	45	13.00	32.00	45	11.77	33.23
46	14.65	31.35	46	13.98	32.02	46	12.82	33.18	46	11.69	34.31
47	14.83	32.17	47	13.96	33.04	47	12.78	34.22	47	11.65	35.35
48	14.85	33.15	48	13.98	34.02	48	12.75	35.25	48	11.65	36.35
49	14.94	34.06	49	14.06	34.94	49	12.6	PASS	49	11.68	37.32
50	14.88	35.12	50	14.12	35.88	50	12.40	38	50	11.65	38.35

P1dB

20W

25W

32W

40W

50W

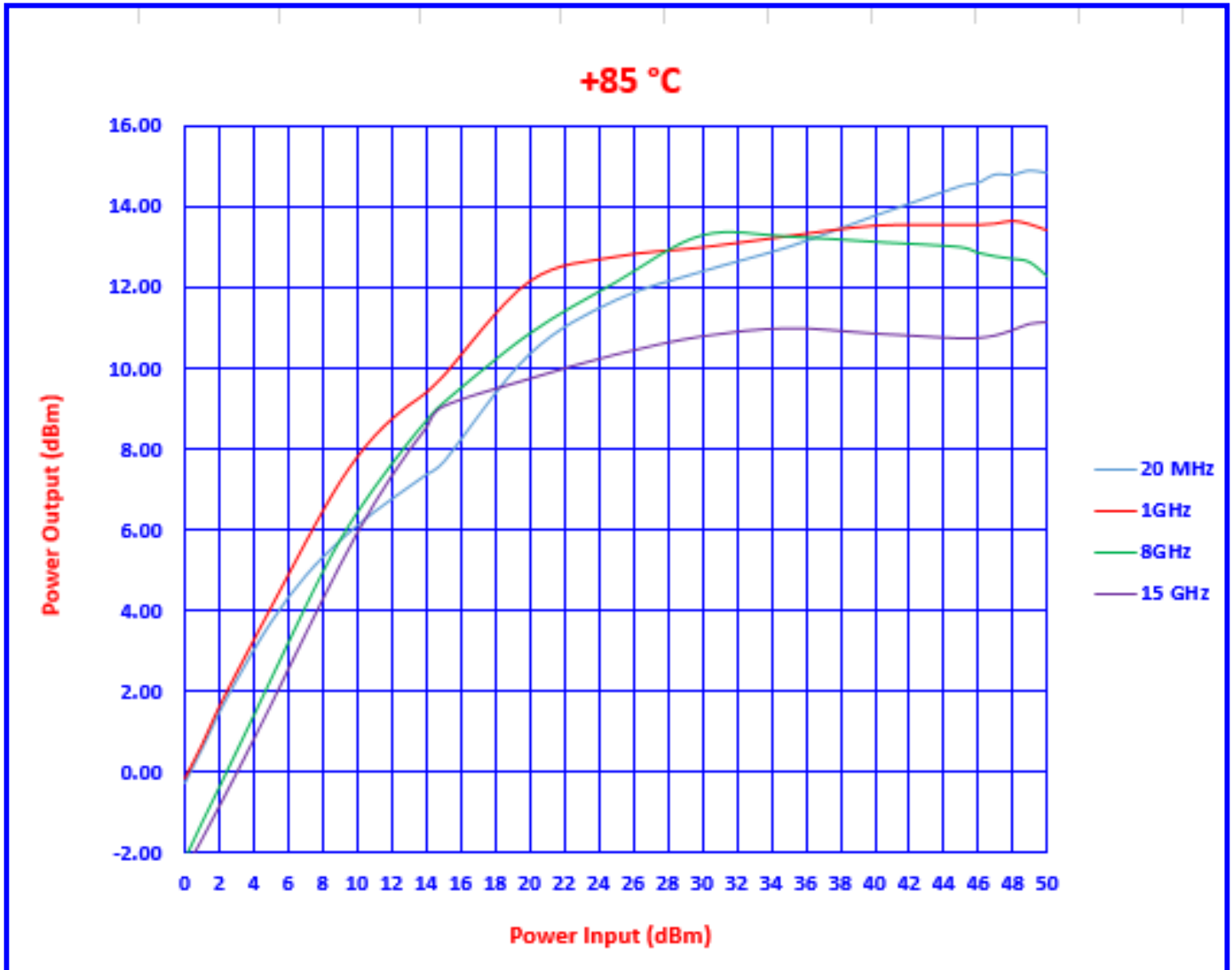
63W

80W

100W

**TYPICAL CHARACTERISTICS
ON
LM-20M15G-100W-15DBM-HERM**

Graph High Power Test (CW)



TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Data High Power Test (CW)

+85 °C											
20 MHz			1GHz			8GHz			15 GHz		
POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS	POWER INPUT (dBm)	POWER OUTPUT (dBm)	LOSS
0	-0.30	0.30	0	-0.19	0.19	0	-2.16	2.16	0	-2.45	2.45
1	0.54	0.46	1	0.65	0.35	1	-1.25	2.25	1	-1.67	2.67
2	1.45	0.55	2	1.60	0.40	2	-0.38	2.38	2	-0.86	2.86
3	2.25	0.75	3	2.42	0.58	3	0.50	2.50	3	-0.04	3.04
4	3.00	1.00	4	3.24	0.76	4	1.39	2.61	4	0.80	3.20
5	3.69	1.31	5	4.05	0.95	5	2.29	2.71	5	1.66	3.34
6	4.30	1.70	6	4.86	1.14	6	3.19	2.81	6	2.54	3.46
7	4.84	2.16	7	5.66	1.34	7	4.08	2.92	7	3.41	3.59
8	5.30	2.70	8	6.44	1.56	8	4.95	3.05	8	4.27	3.73
9	5.72	3.28	9	7.17	1.83	9	5.73	3.27	9	5.12	3.88
10	6.09	3.91	10	7.79	2.21	10	6.42	3.58	10	5.91	4.09
11	6.43	4.57	11	8.30	2.70	11	7.03	3.97	11	6.65	4.35
12	6.75	5.25	12	8.73	3.27	12	7.62	4.38	12	7.33	4.67
13	7.05	5.95	13	9.08	3.92	13	8.17	4.83	13	7.95	5.05
14	7.35	6.65	14	9.39	4.61	14	8.68	5.32	14	8.52	5.48
15	7.66	7.34	15	9.80	5.20	15	9.13	5.87	15	9.06	5.94
20	10.35	9.65	20	12.15	7.85	20	10.85	9.15	20	9.74	10.26
25	11.69	13.31	25	12.76	12.24	25	12.12	12.88	25	10.34	14.66
30	12.40	17.60	30	12.99	17.01	30	13.28	16.72	30	10.79	19.21
35	13.01	21.99	35	13.27	21.73	35	13.25	21.75	35	10.99	24.01
40	13.78	26.22	40	13.53	26.47	40	13.12	26.88	40	10.86	29.14
45	14.52	30.48	45	13.55	31.45	45	12.99	32.01	45	10.74	34.26
46	14.60	31.40	46	13.55	32.45	46	12.85	33.15	46	10.75	35.25
47	14.81	32.19	47	13.58	33.42	47	12.76	34.24	47	10.81	36.19
48	14.8	33.20	48	13.65	34.35	48	12.7	35.30	48	10.94	37.06
49	14.91	PASS	49	13.57	35.43	49	12.62	36.38	49	11.10	37.90
50	14.85	35.15	50	13.42	36.58	50	12.28	37.72	50	11.14	38.86

P1dB

20W

25W

32W

40W

50W

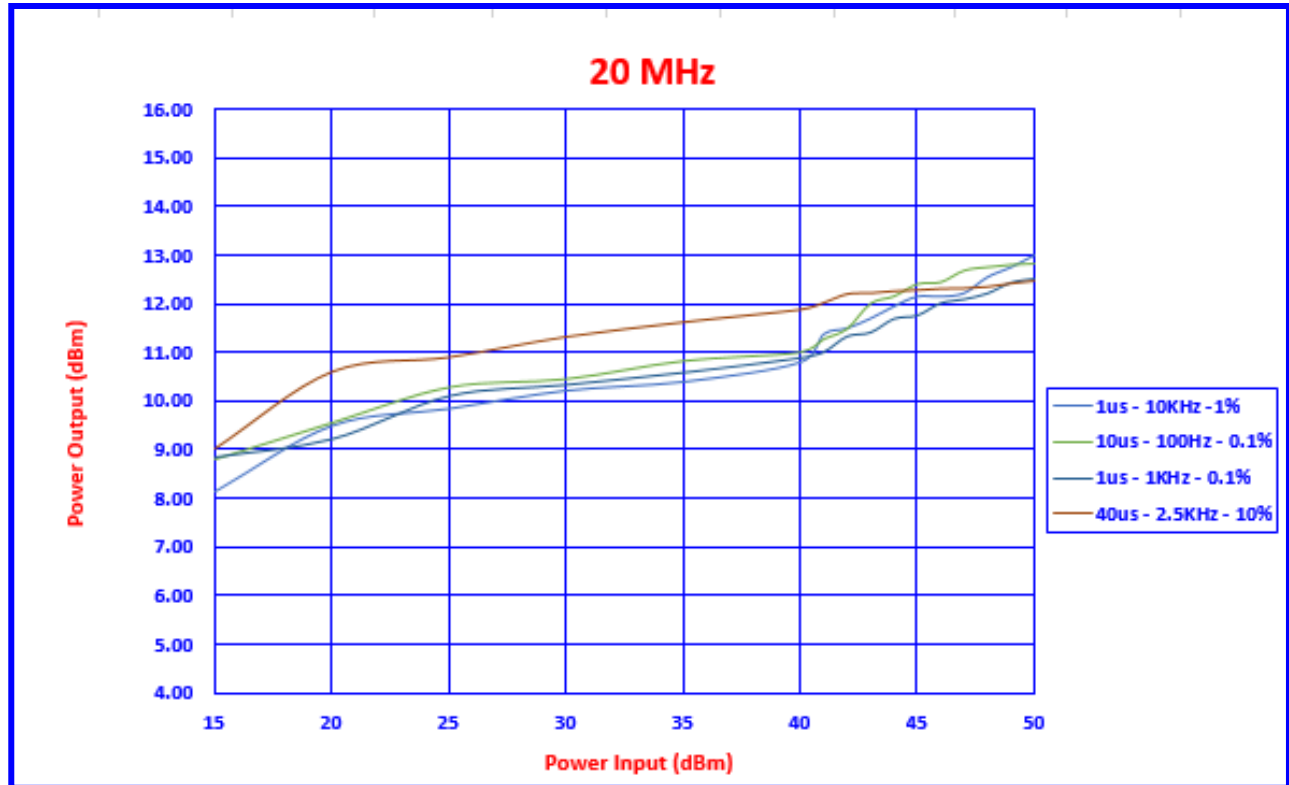
63W

80W

100W

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

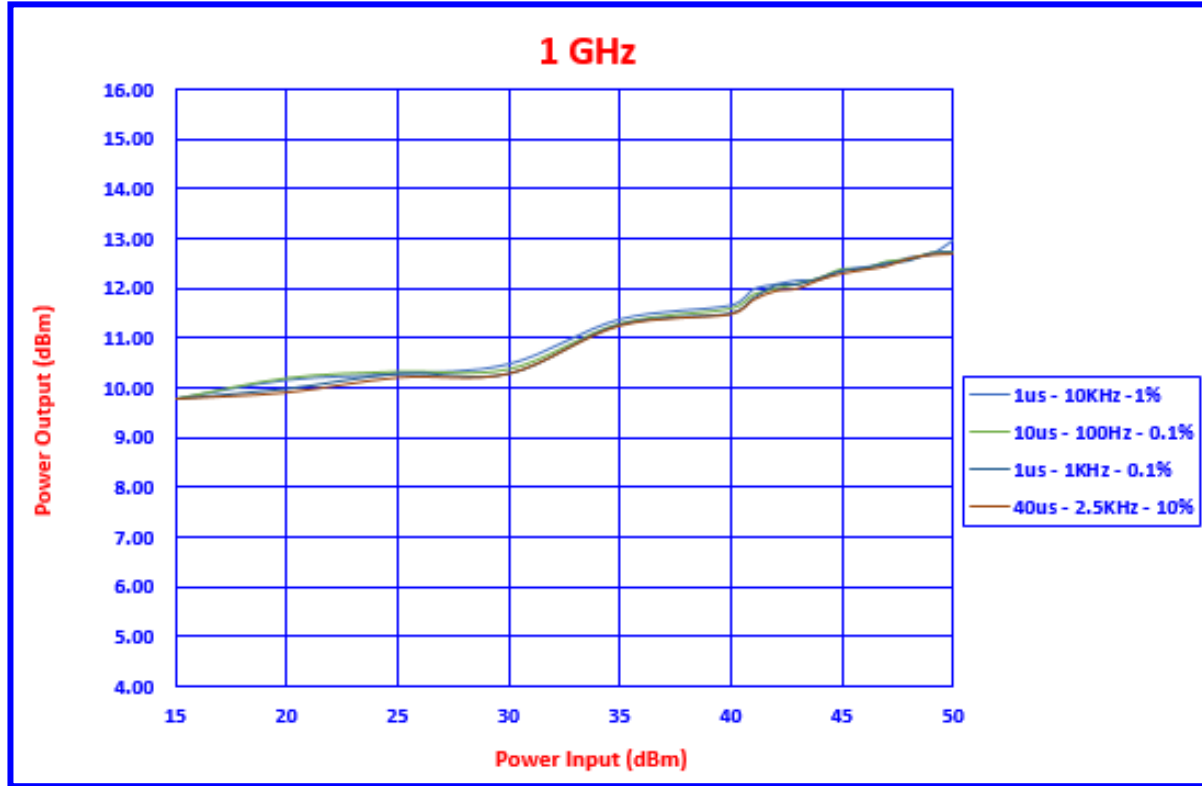
Graph Peak Power Test (Pulsed)



20 MHz							
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%	
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)
15	8.15	15	8.80	15	8.85	15	9.00
20	9.50	20	9.55	20	9.22	20	10.58
25	9.85	25	10.28	25	10.10	25	10.88
30	10.22	30	10.45	30	10.33	30	11.30
35	10.40	35	10.82	35	10.58	35	11.60
40	10.80	40	11.00	40	10.88	40	11.86
41	11.38	41	11.27	41	11.00	41	12.00
42	11.50	42	11.48	42	11.32	42	12.18
43	11.70	43	12.00	43	11.40	43	12.20
44	11.95	44	12.15	44	11.68	44	12.24
45	12.15	45	12.40	45	11.75	45	12.26
46	12.15	46	12.44	46	12.00	46	12.29
47	12.22	47	12.68	47	12.08	47	12.30
48	12.55	48	12.75	48	12.20	48	12.33
49	12.75	49	12.80	49	12.42	49	12.40
50	13.00	50	12.82	50	12.50	50	12.45

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Graph Peak Power Test (Pulsed)

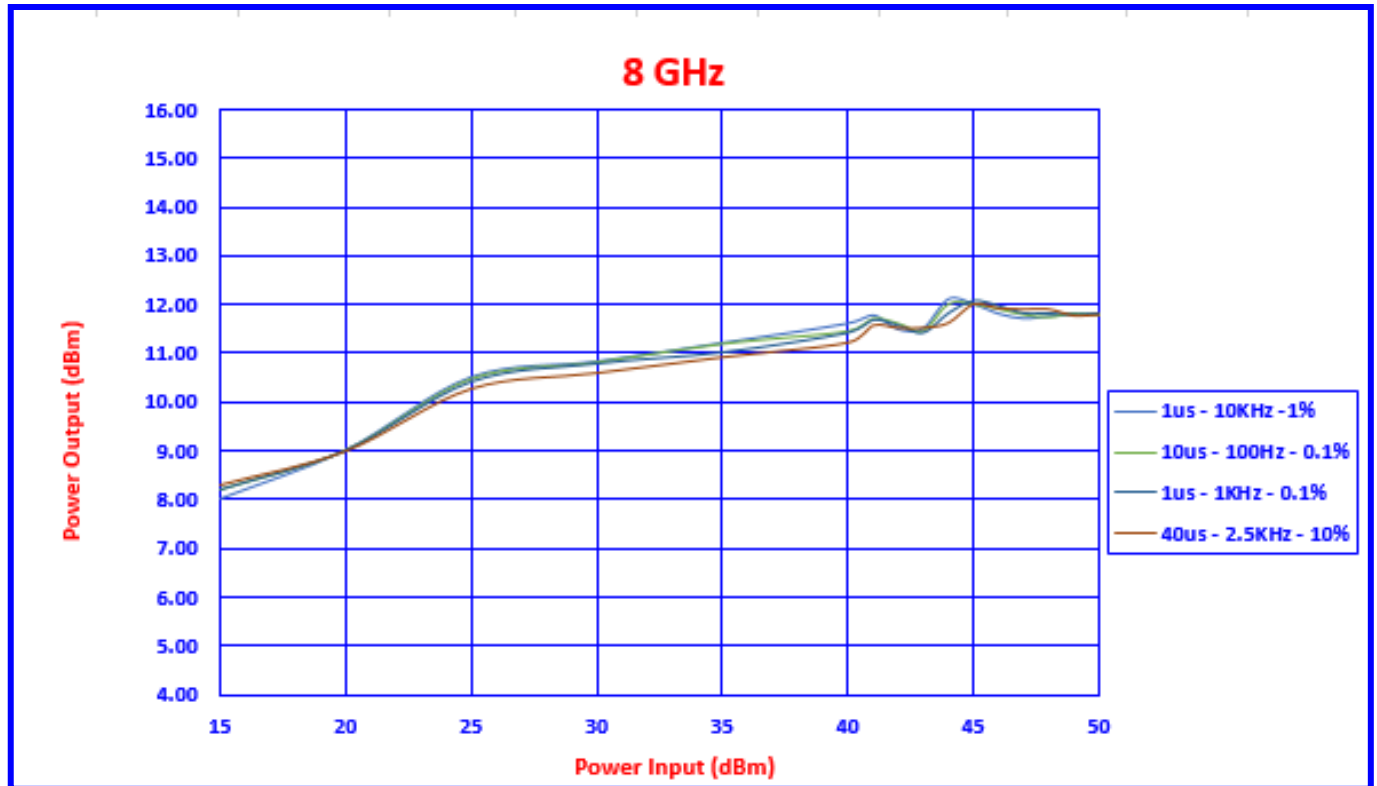


1 GHz							
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%	
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)
15	9.80	15	9.78	15	9.80	15	9.77
20	10.18	20	10.20	20	10.00	20	9.90
25	10.30	25	10.33	25	10.30	25	10.20
30	10.50	30	10.38	30	10.30	30	10.28
35	11.40	35	11.30	35	11.28	35	11.25
40	11.68	40	11.60	40	11.50	40	11.48
41	12.00	41	11.88	41	11.80	41	11.77
42	12.10	42	12.00	42	12.05	42	11.95
43	12.18	43	12.10	43	12.08	43	12.00
44	12.20	44	12.22	44	12.20	44	12.18
45	12.38	45	12.40	45	12.35	45	12.30
46	12.45	46	12.40	46	12.40	46	12.38
47	12.50	47	12.55	47	12.50	47	12.45
48	12.64	48	12.60	48	12.55	48	12.60
49	12.70	49	12.72	49	12.70	49	12.68
50	12.98	50	12.75	50	12.72	50	12.70

80W
100W

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Graph Peak Power Test (Pulsed)

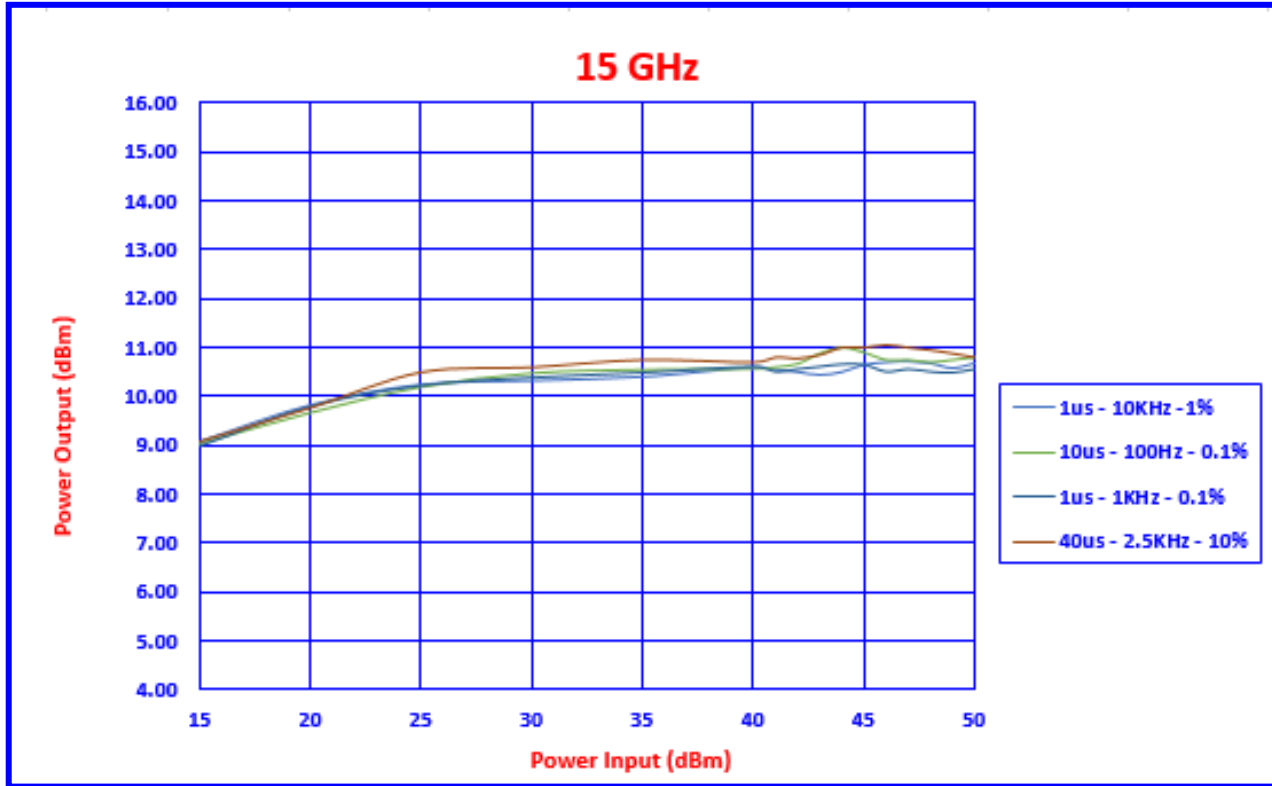


8 GHz							
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%	
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)
15	8.00	15	8.18	15	8.20	15	8.30
20	9.00	20	8.99	20	9.00	20	8.99
25	10.50	25	10.46	25	10.40	25	10.26
30	10.82	30	10.80	30	10.77	30	10.58
35	11.20	35	11.18	35	11.00	35	10.90
40	11.60	40	11.44	40	11.40	40	11.20
41	11.77	41	11.70	41	11.66	41	11.55
42	11.48	42	11.60	42	11.55	42	11.50
43	11.50	43	11.45	43	11.40	43	11.50
44	12.10	44	12.00	44	11.80	44	11.60
45	12.00	45	12.00	45	12.05	45	11.98
46	11.80	46	11.90	46	11.95	46	11.90
47	11.7	47	11.78	47	11.8	47	11.88
48	11.75	48	11.73	48	11.8	48	11.88
49	11.8	49	11.81	49	11.77	49	11.75
50	11.70	50	11.77	50	11.80	50	11.77

80W
100W

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Graph Peak Power Test (Pulsed)

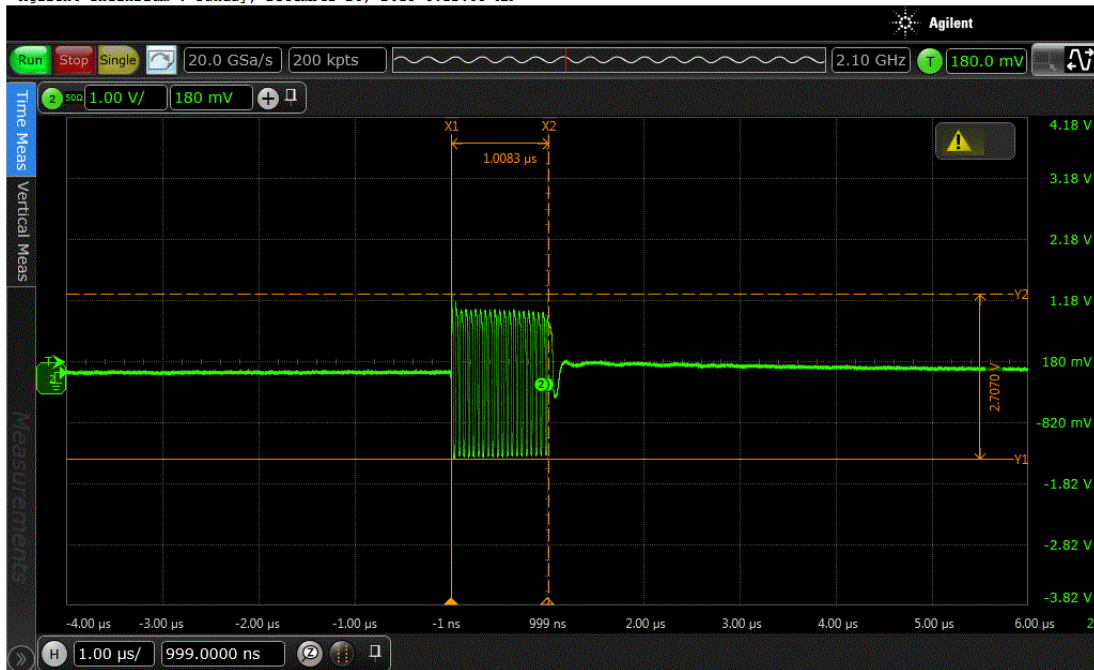


15 GHz							
10us - 100Hz - DC 0.1%		10us - 100Hz - DC 0.1%		1us - 1KHz - DC 0.1%		40us - 2.5KHz - DC 10%	
POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)	POWER INPUT (dBm)	POWER OUTPUT (dBm)
15	9.07	15	9.05	15	9.00	15	9.10
20	9.82	20	9.68	20	9.80	20	9.78
25	10.24	25	10.20	25	10.22	25	10.50
30	10.32	30	10.48	30	10.38	30	10.60
35	10.40	35	10.55	35	10.48	35	10.75
40	10.60	40	10.57	40	10.60	40	10.70
41	10.55	41	10.60	41	10.50	41	10.80
42	10.50	42	10.67	42	10.55	42	10.78
43	10.44	43	10.88	43	10.60	43	10.85
44	10.50	44	11.00	44	10.65	44	11.00
45	10.65	45	10.90	45	10.64	45	11.00
46	10.70	46	10.75	46	10.50	46	11.05
47	10.72	47	10.75	47	10.55	47	11.00
48	10.68	48	10.70	48	10.50	48	10.95
49	10.58	49	10.75	49	10.48	49	10.88
50	10.68	50	10.8	50	10.55	50	10.80

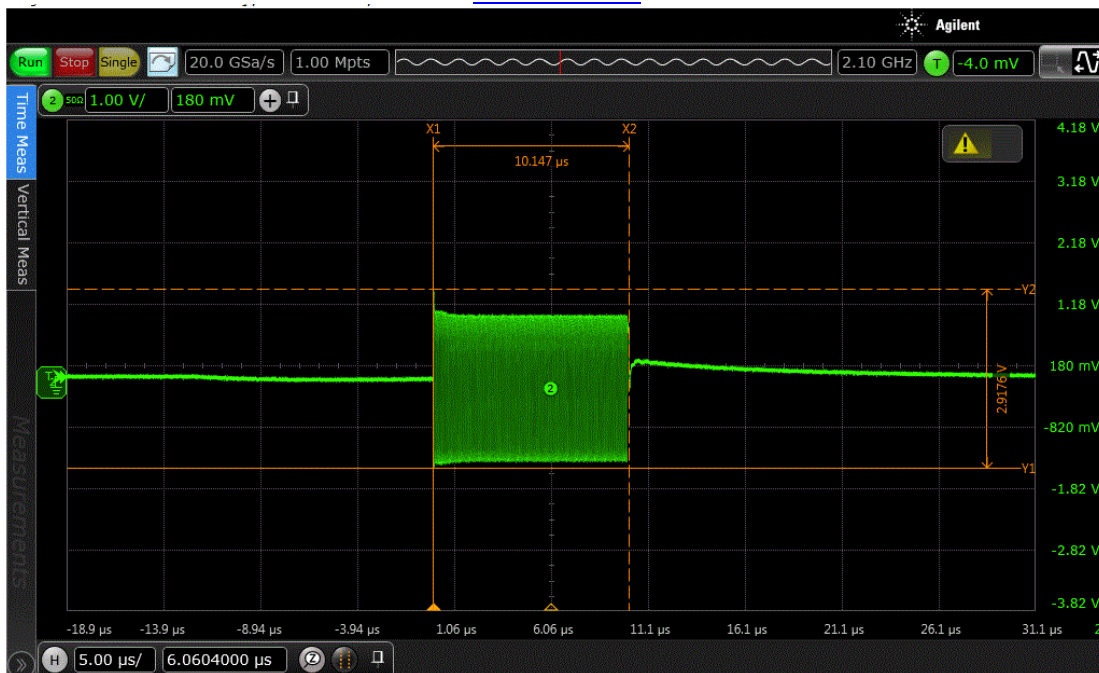
80W
100W

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Full Pulse (20MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
1us Per Div.

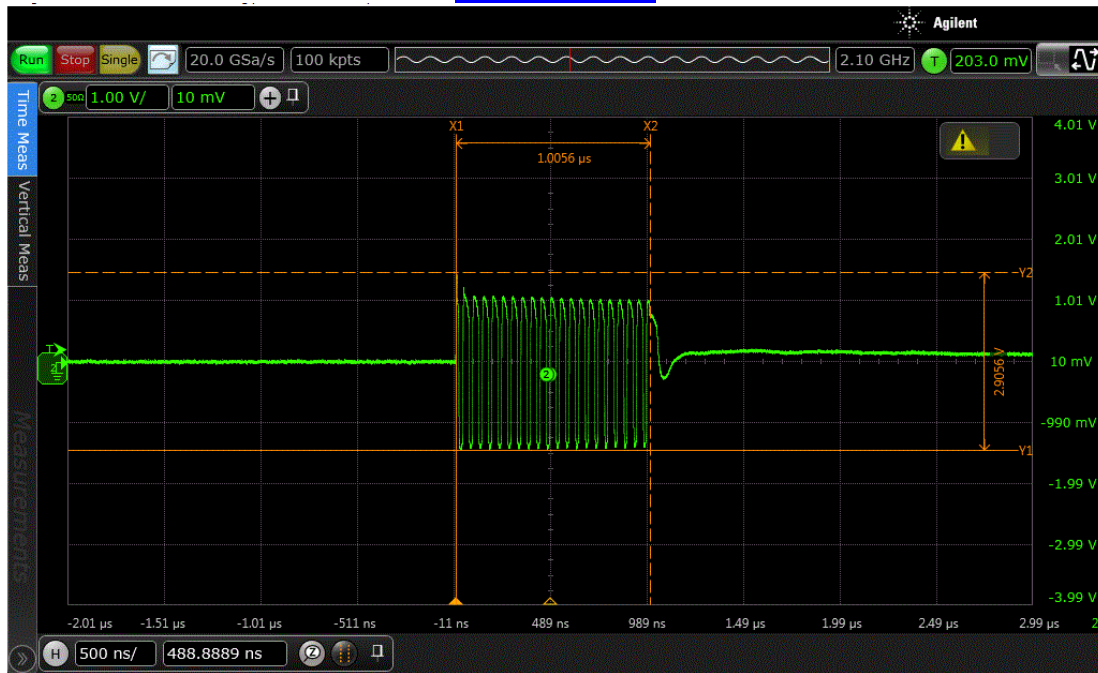


Full Pulse (20MHz)
Pulsed RF Input 10W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.

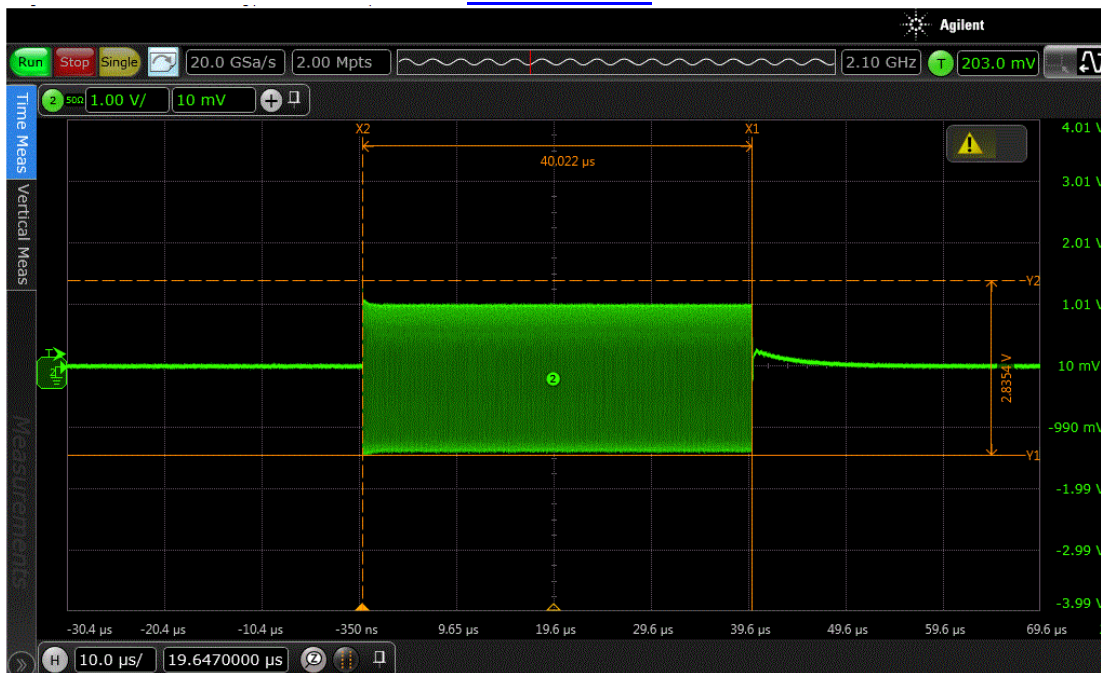


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Full Pulse (20MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
500ns Per Div.

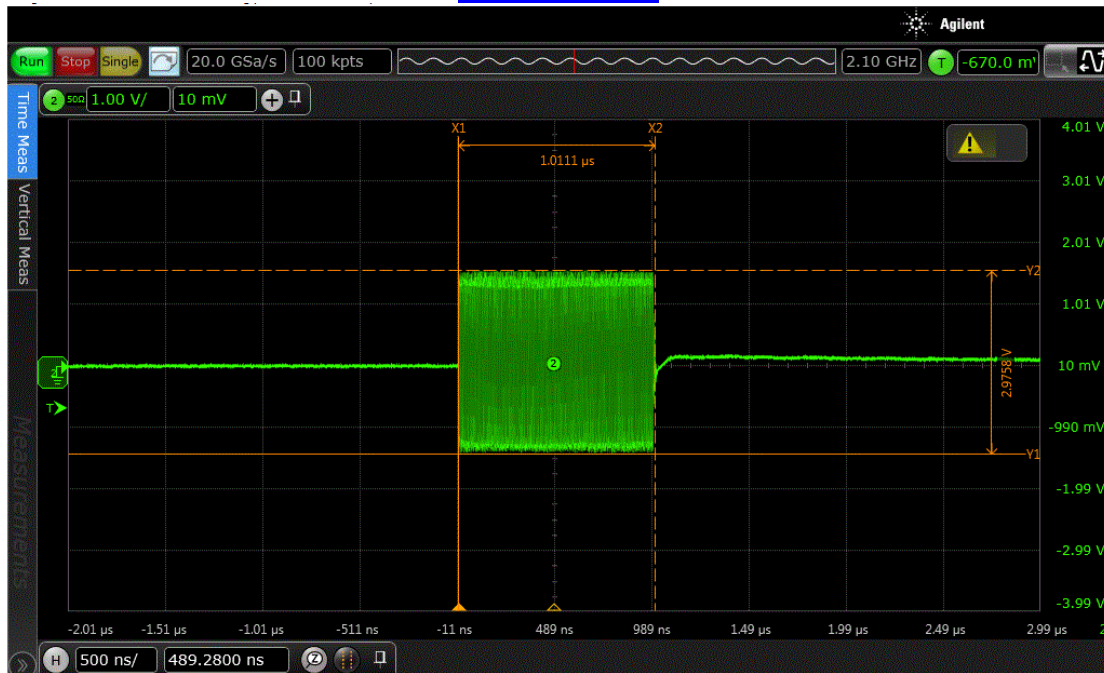


Full Pulse (20MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
10us Per Div.

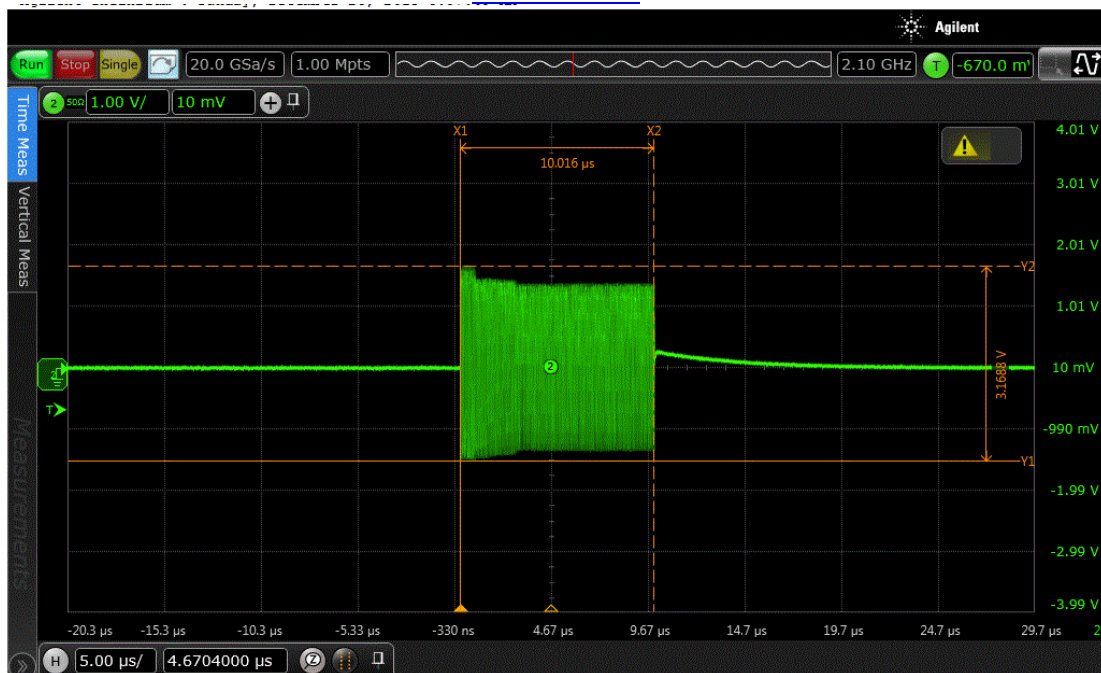


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Full Pulse (500MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
500ns Per Div.

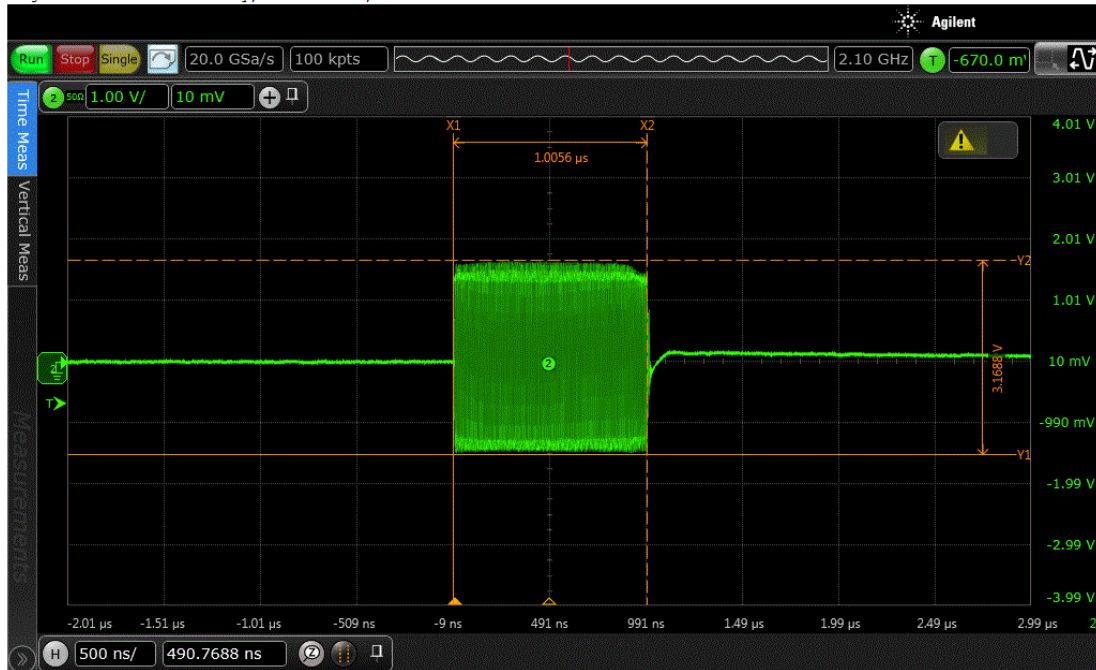


Full Pulse (500MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.

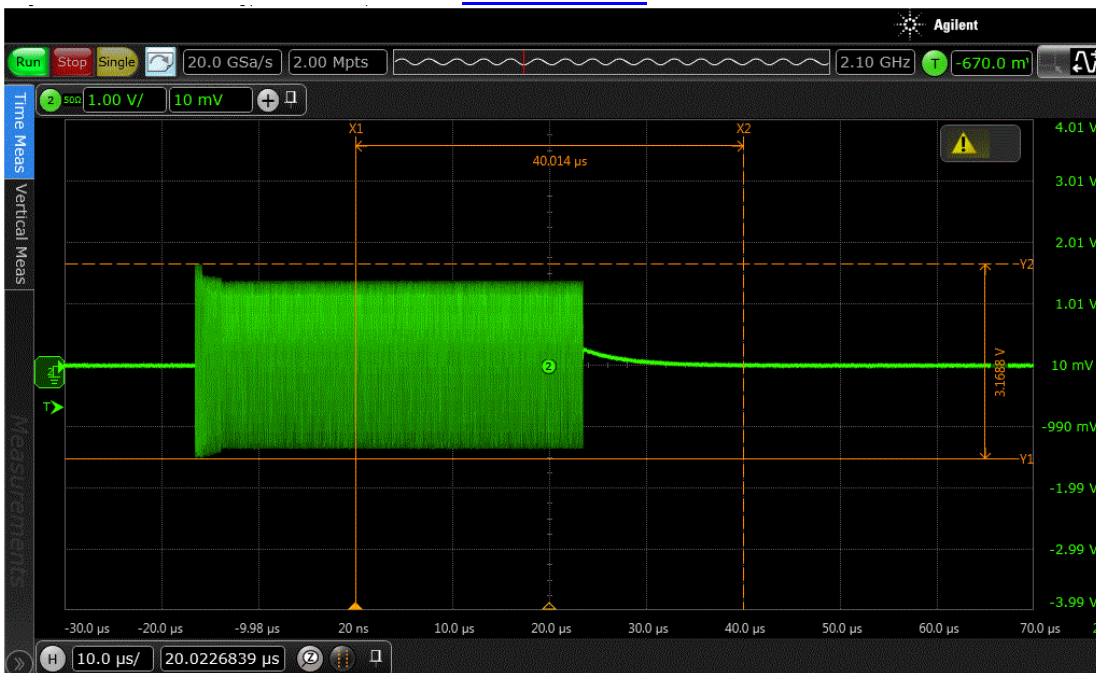


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Full Pulse (500MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
500ns Per Div.

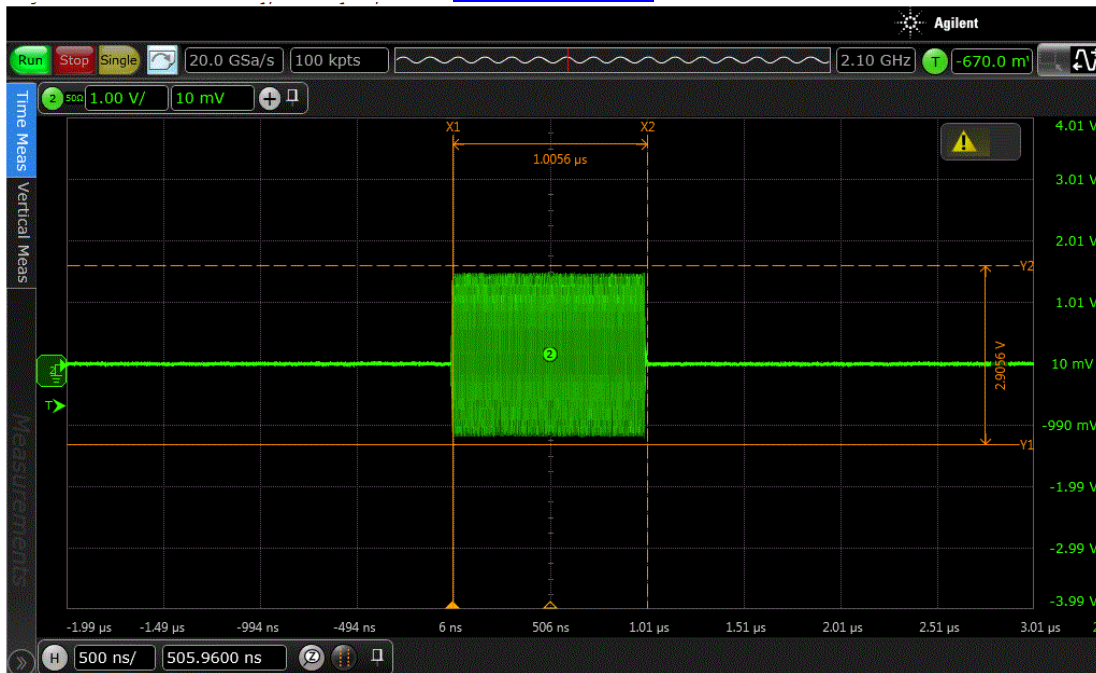


Full Pulse (500MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10us Per Div.

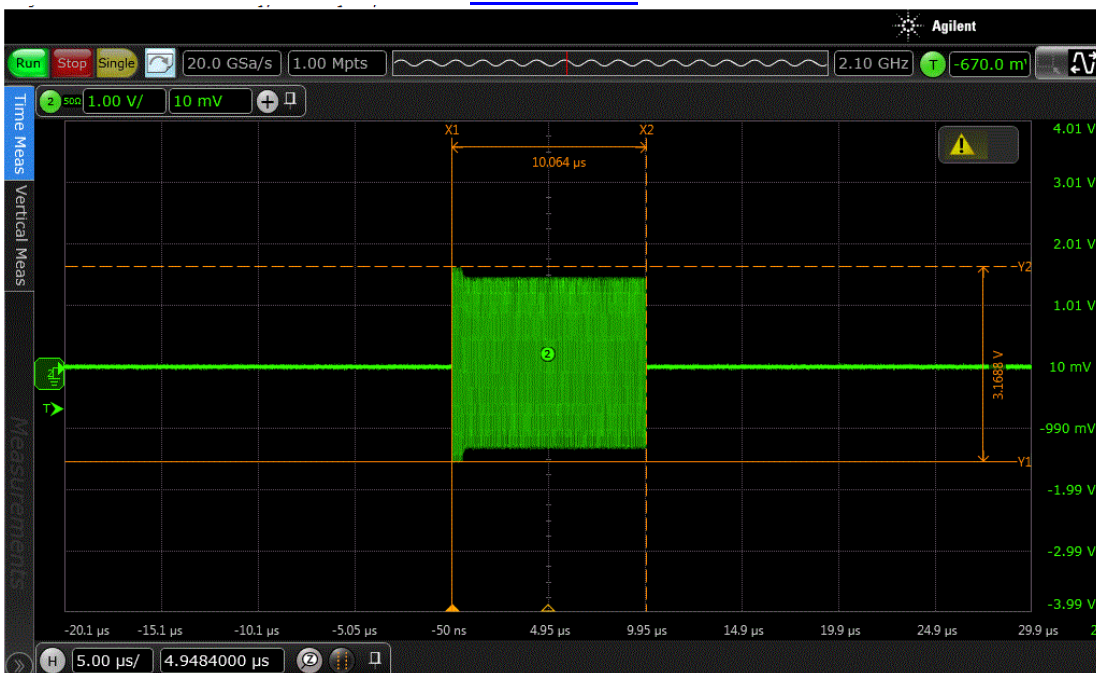


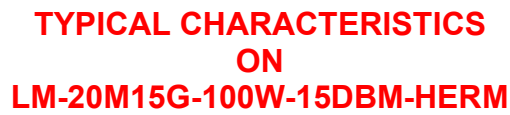
TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Full Pulse (1GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
500ns Per Div.



Full Pulse (1GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5us Per Div.





Agilent

Run Stop Single

20.0 GSa/s 100 kpts

2.10 GHz T -670.0 mV

Time Meas Vertical Meas

2 500 1.00 V/ 10 mV

Measurements

2

1.0056 μ s

2.7477 V

492 ns

500 ns/ 492.4889 ns

Agilent

Run Stop Single

20.0 GSa/s 2.00 Mpts

2.10 GHz -670.0 mV

Time Meas Vertical Meas

500 1.00 V/ 10 mV

X1 X2

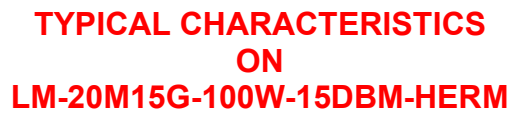
40.011 μ s

Y1 Y2

3.1337 V

-30.0 μ s -20.0 μ s -10.0 μ s -0.0 s 10.0 μ s 20.0 μ s 30.0 μ s 40.0 μ s 50.0 μ s 60.0 μ s 70.0 μ s

10.0 μ s/ 19.9954476 μ s



Agilent

Run Stop Single 20.0 GSa/s 100 kpts 2.10 GHz -670.0 mV

Time Meas Vertical Meas

500 1.00 V/ 10 mV

X1 X2 1.0111 μ s

4.01 V 3.01 V 2.01 V 1.01 V 0 10 mV -990 mV -1.99 V -2.99 V -3.99 V

Y2 Y1 3.0788 V

-2.02 μ s -1.52 μ s -1.02 μ s -516 ns -16 ns 484 ns 984 ns 1.48 μ s 1.98 μ s 2.48 μ s 2.98 μ s

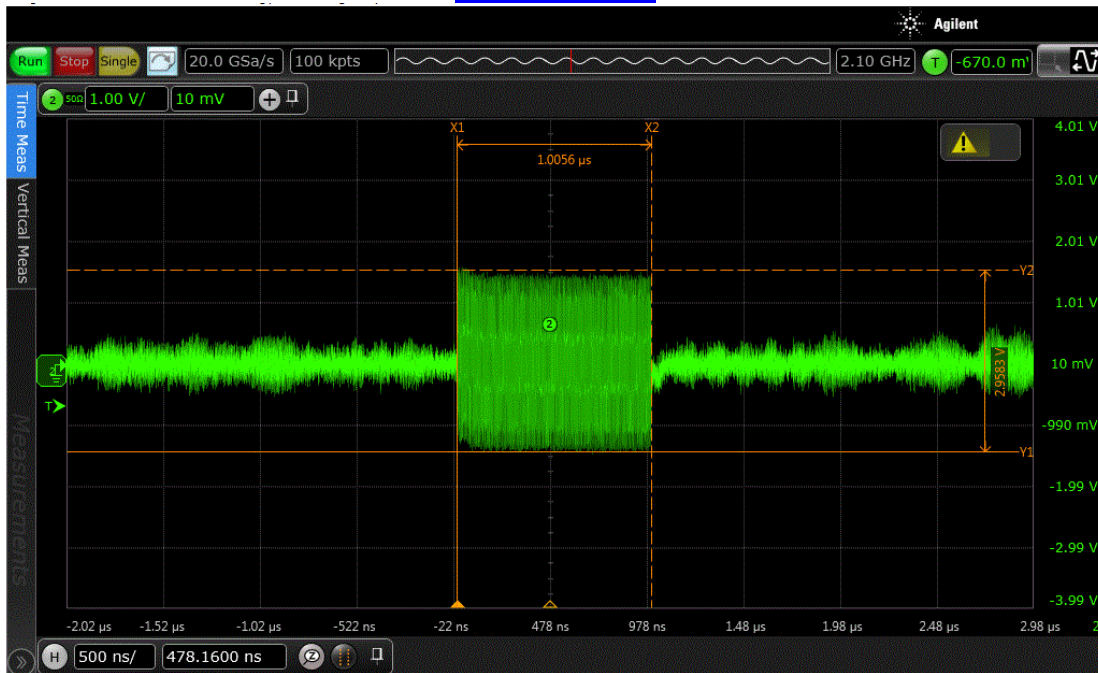
Measurements

500 ns/ 483.7200 ns

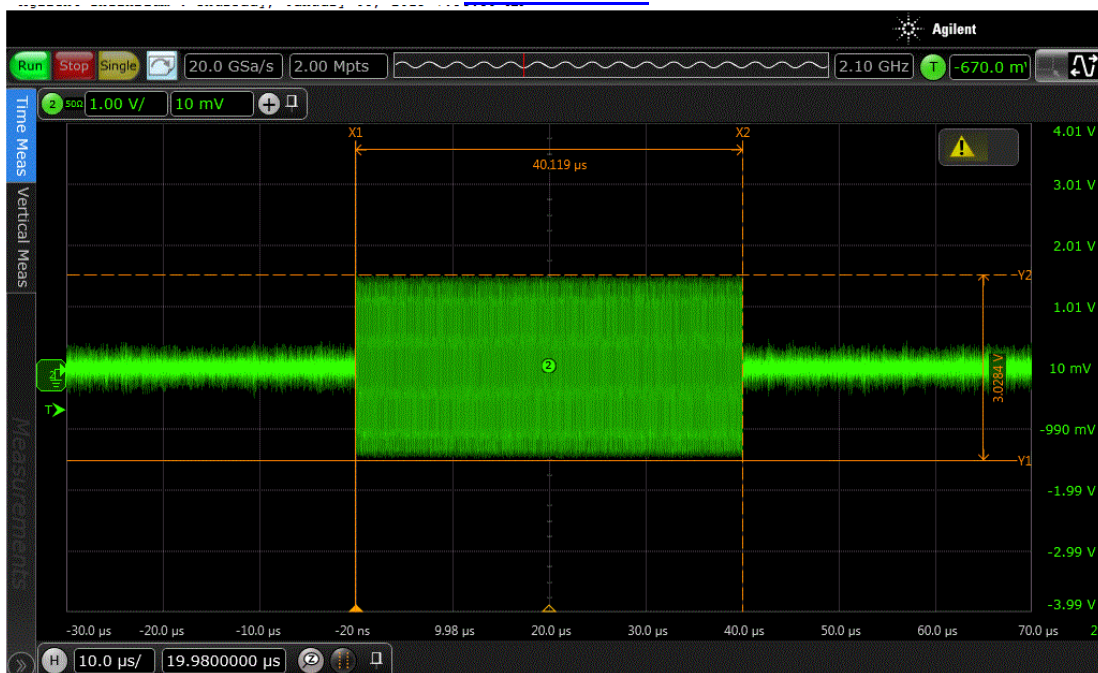
The screenshot displays an Agilent oscilloscope interface. At the top, the status bar shows 'Run', 'Stop', 'Single', and '20.0 GSa/s' sampling rate. The main display area shows a green signal trace on a black background. A zoomed-in region is highlighted with orange dashed lines, labeled X1, X2, Y1, and Y2. The horizontal scale is 5.00 μs/div, and the vertical scale is 10 mV/div. The zoomed-in region shows a high-frequency burst of the signal. The time measurement for the zoomed-in region is 10.063 μs, and the voltage measurement is 2.9583 V. The bottom of the screen shows the 'Measurements' menu with various icons for time and voltage measurements.

TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Full Pulse (2GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
500ns Per Div.

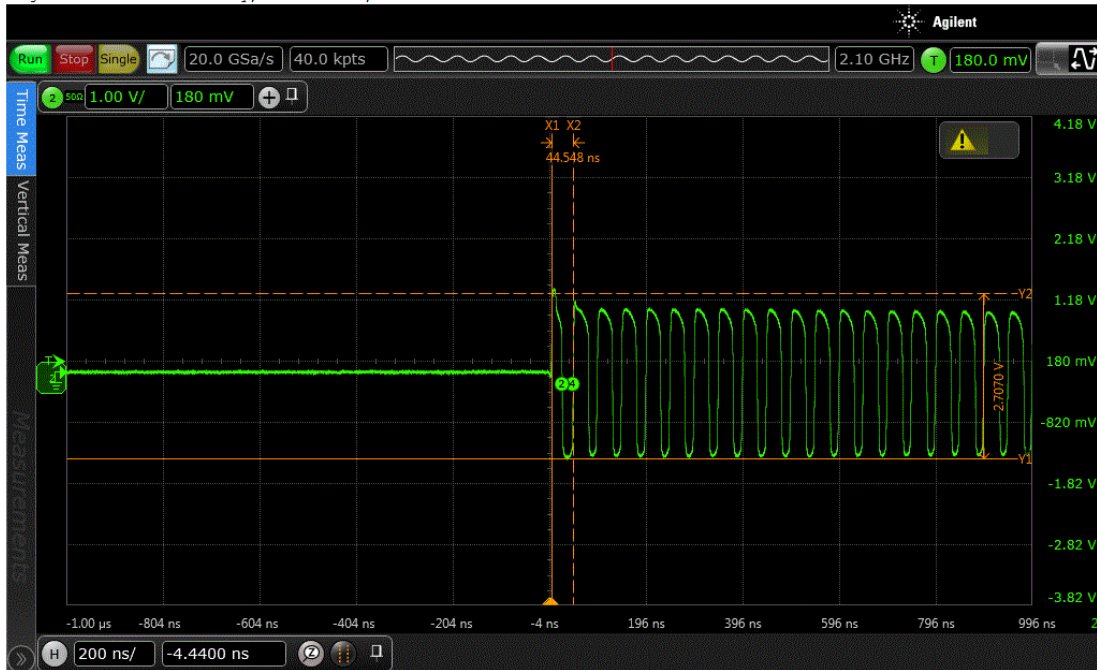


Full Pulse (2GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
10us Per Div.

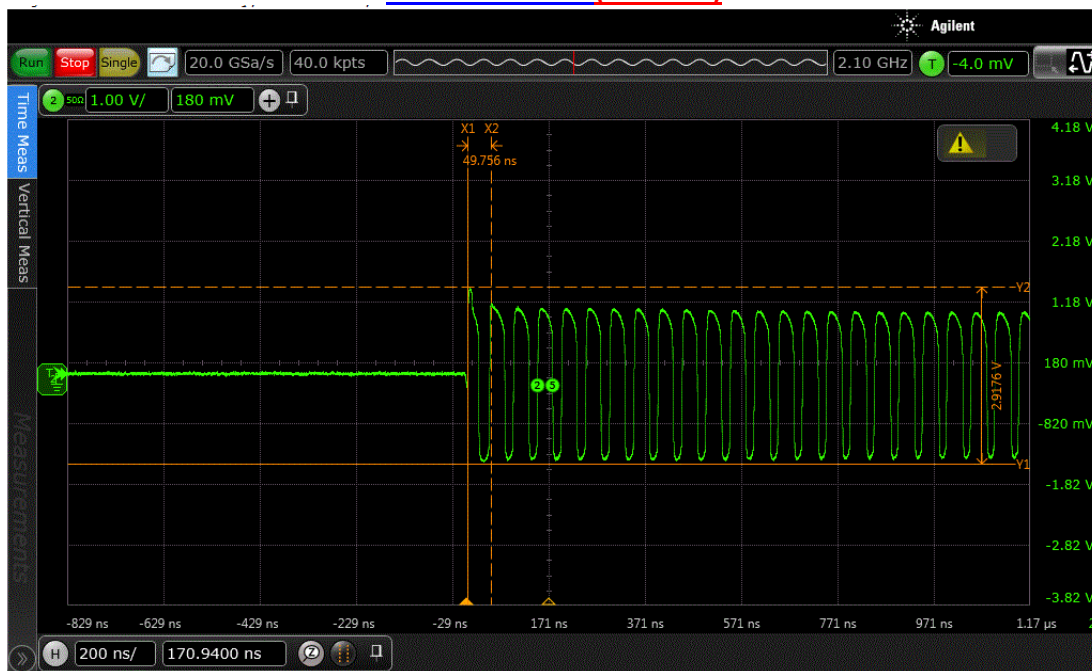


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (20MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
200ns Per Div. (44.55ns)

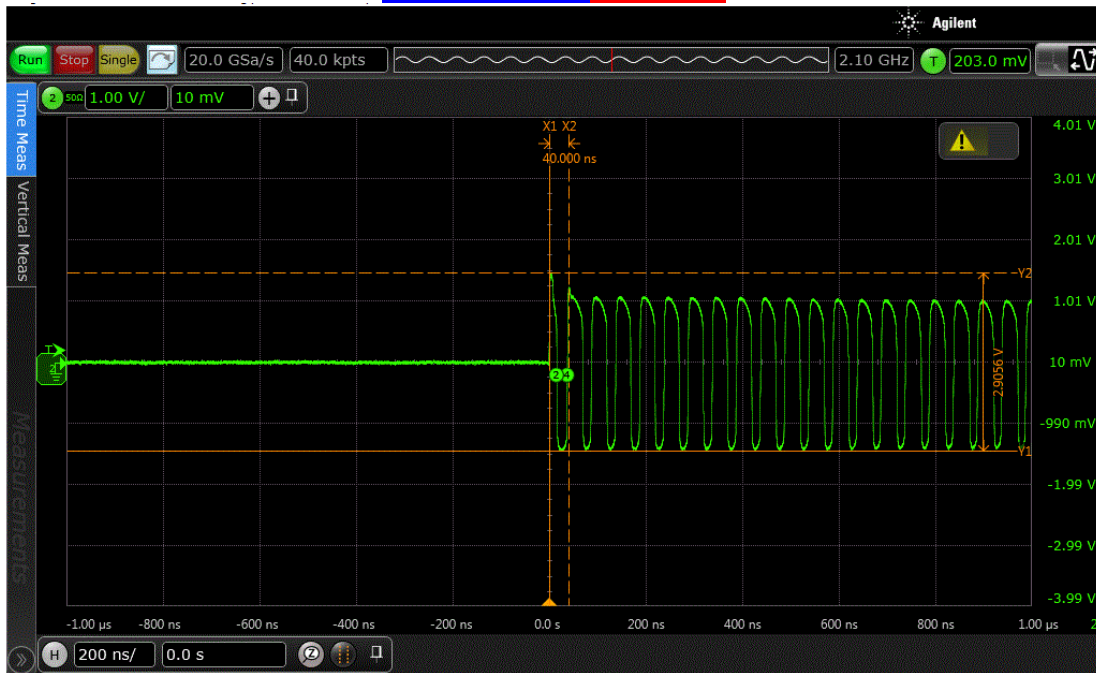


Rise Time (20MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
200ns Per Div. (49.75ns)

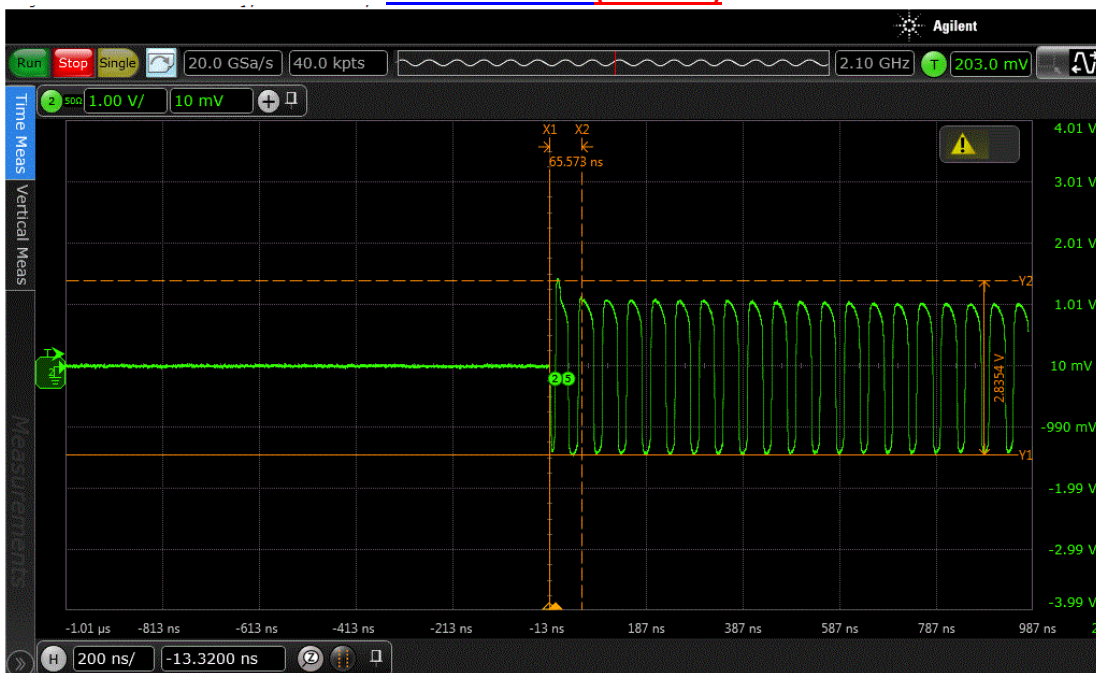


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (20MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
200ns Per Div. (40.00 ns)

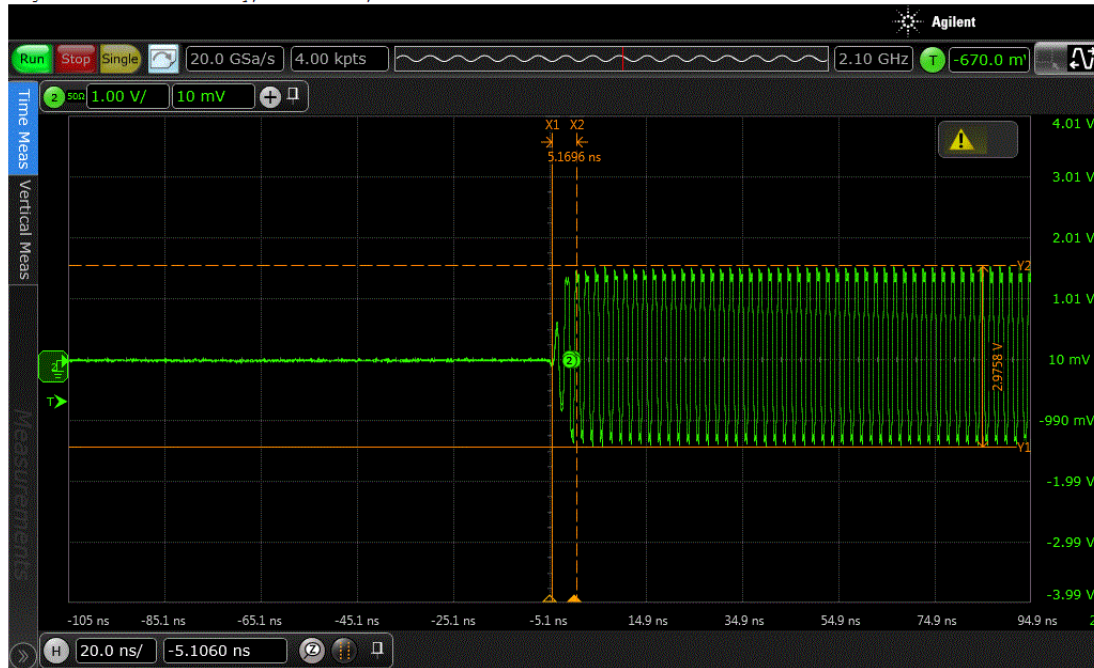


Rise Time (20MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
200ns Per Div. (65.57ns)

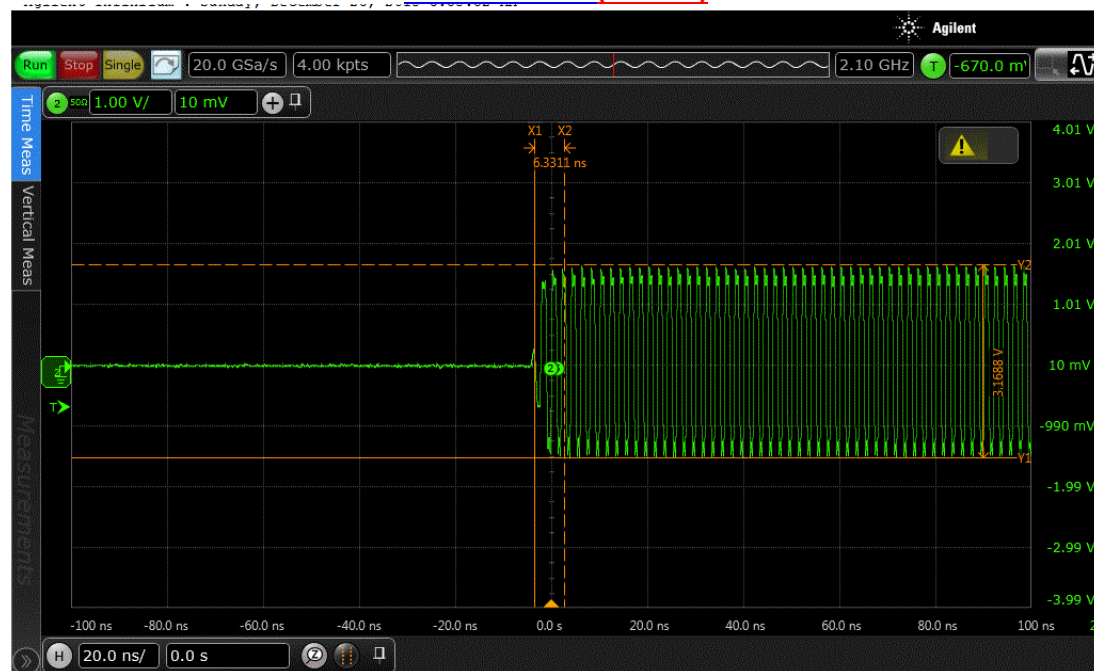


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (500MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
20ns Per Div. (5.17ns)

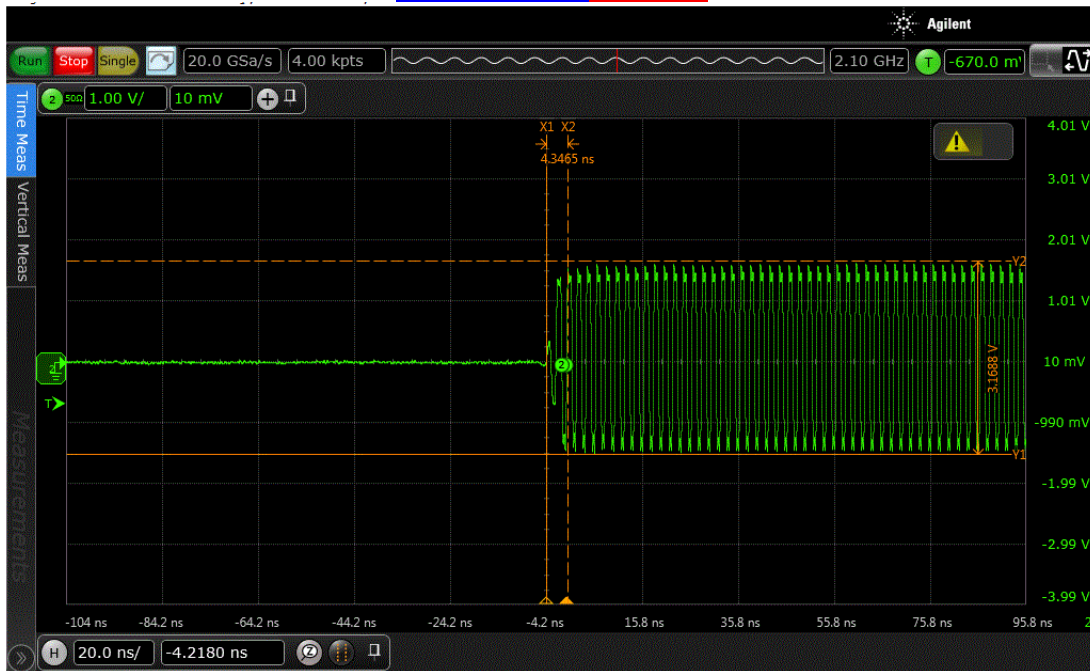


Rise Time (500MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
20ns Per Div. (6.33ns)

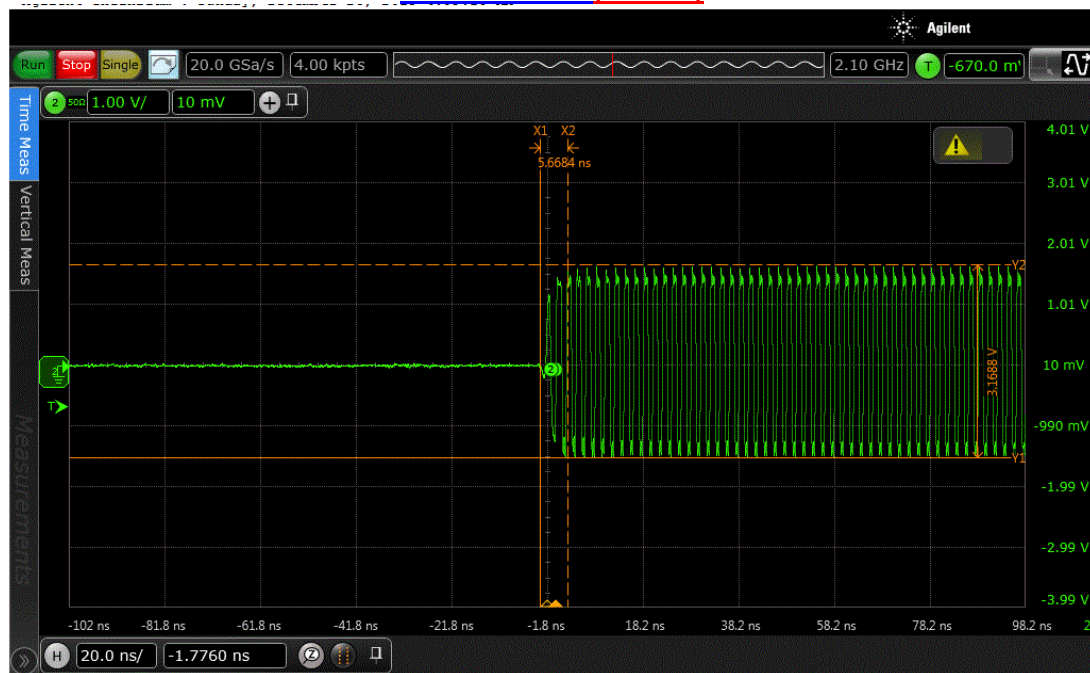


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (500MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
20ns Per Div. (4.35 ns)

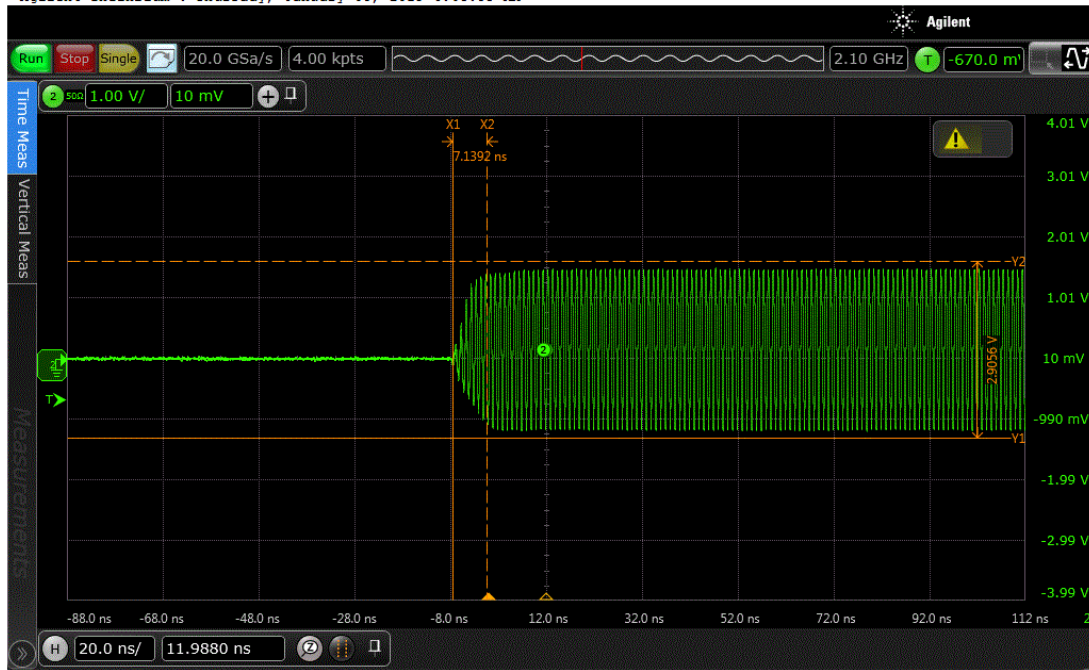


Rise Time (500MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
20ns Per Div. (5.67ns)

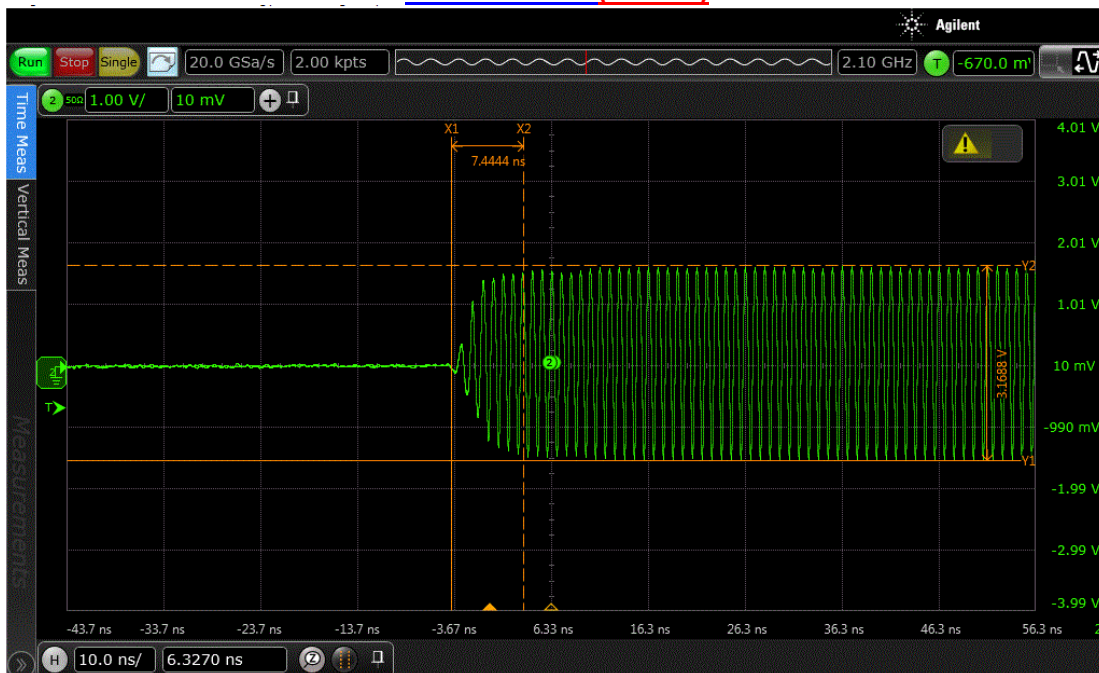


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (1GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
20ns Per Div. (7.14 ns)

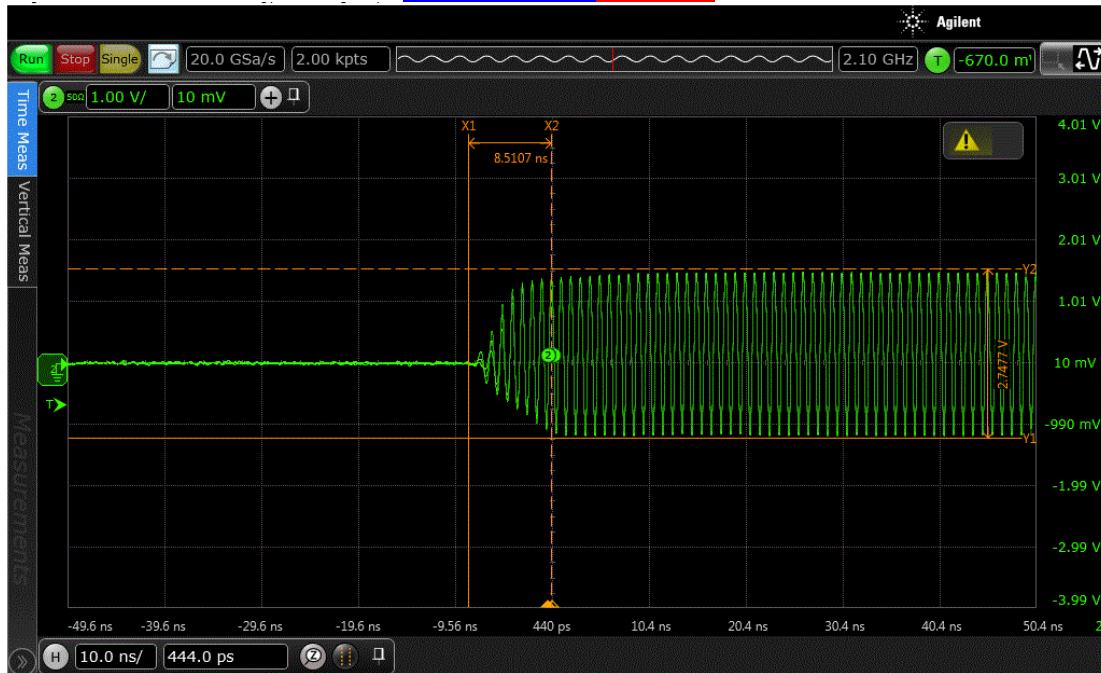


Rise Time (1GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
10ns Per Div. (7.44ns)

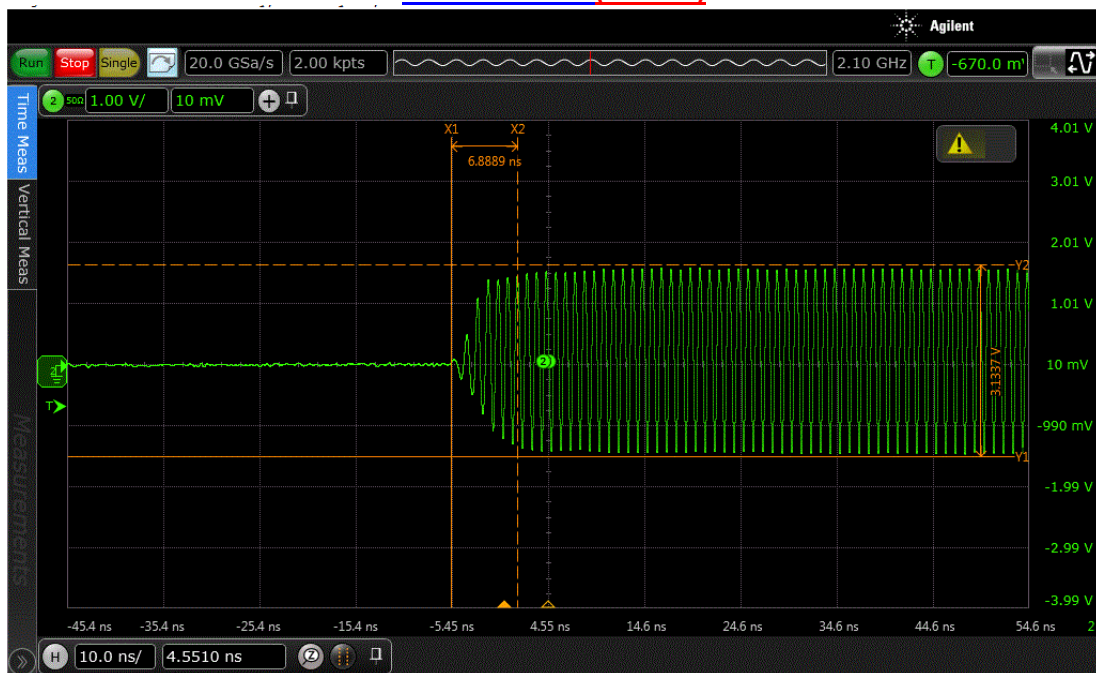


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (1GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
10ns Per Div. (8.51 ns)

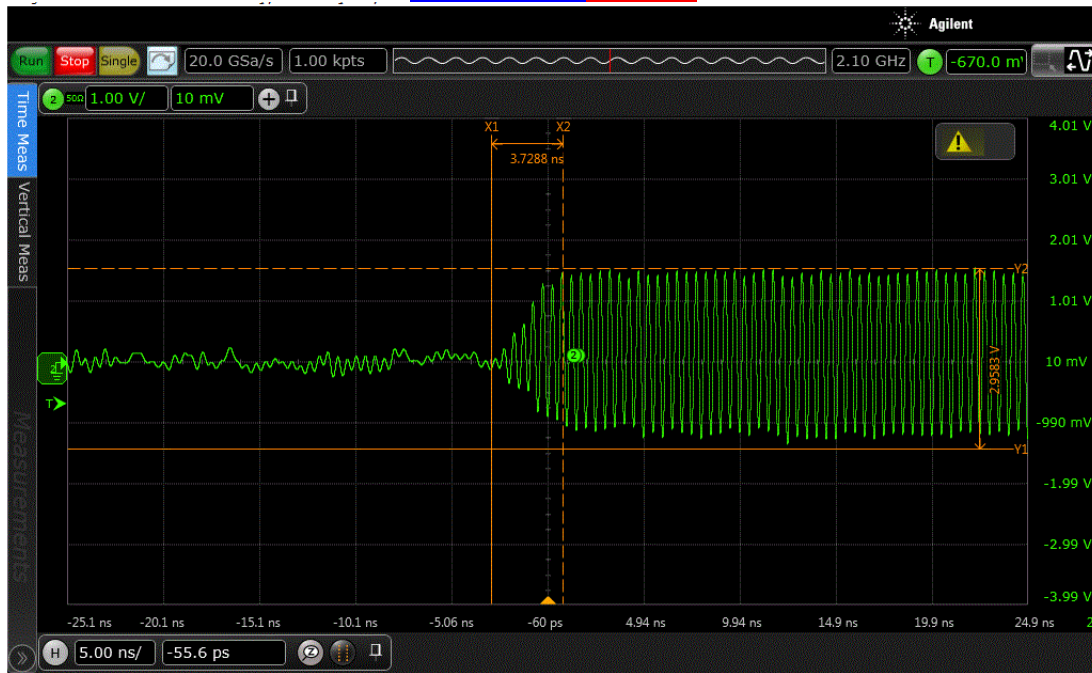


Rise Time (1GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
10ns Per Div. (6.89ns)

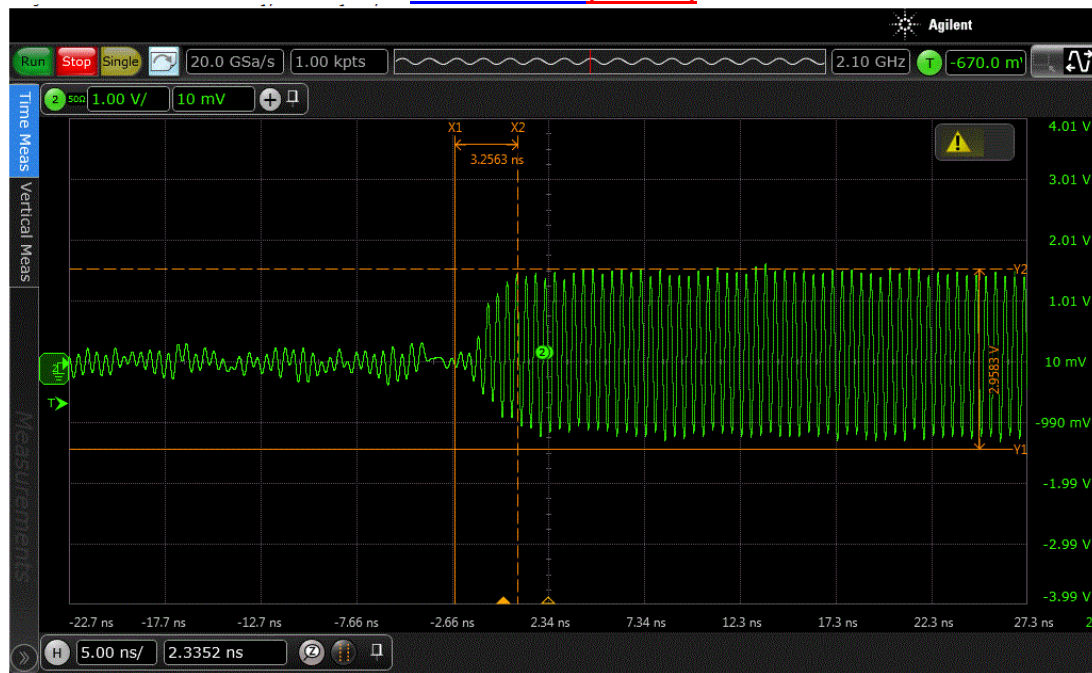


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (2GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
5ns Per Div. (3.73ns)

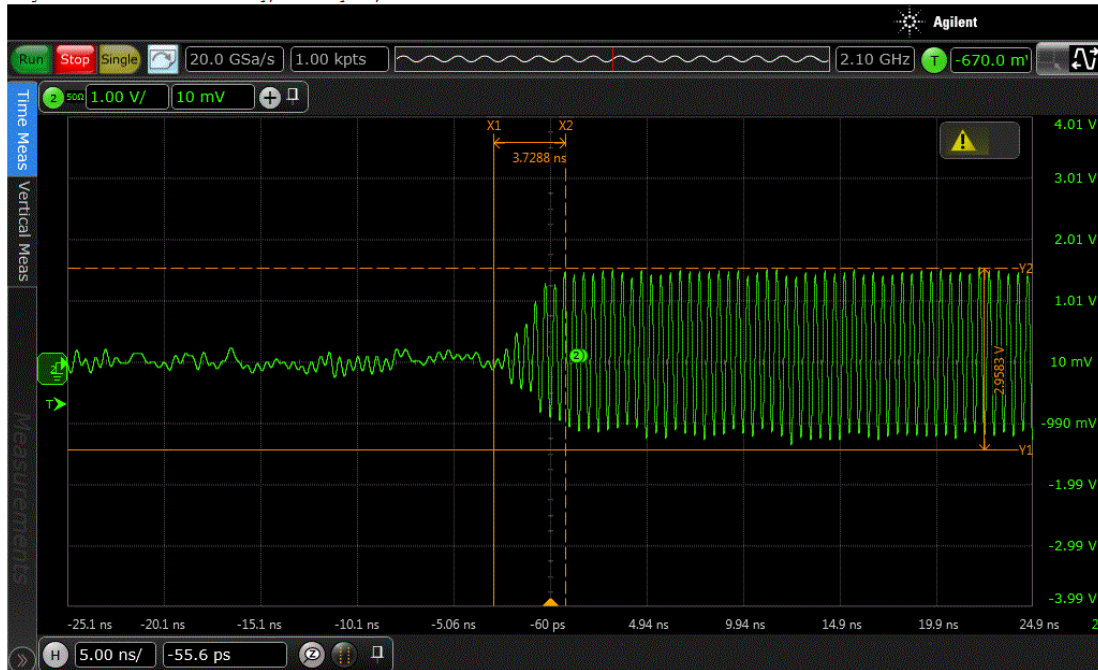


Rise Time (2GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5ns Per Div. (3.26ns)

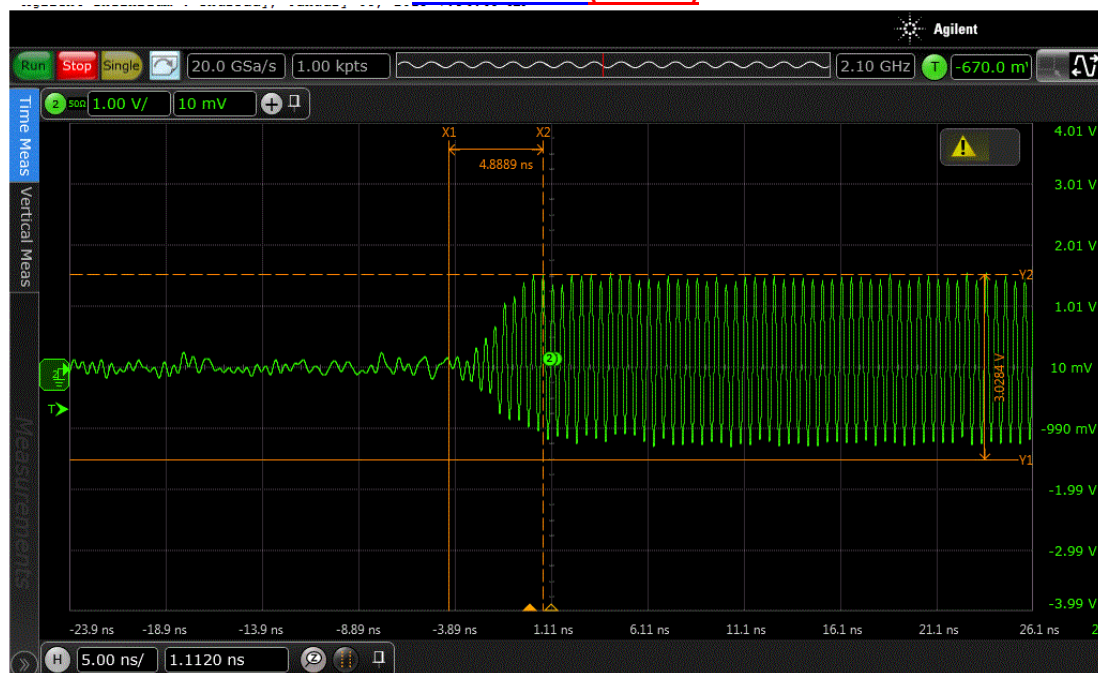


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Rise Time (2GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
5ns Per Div. (3.73 ns)

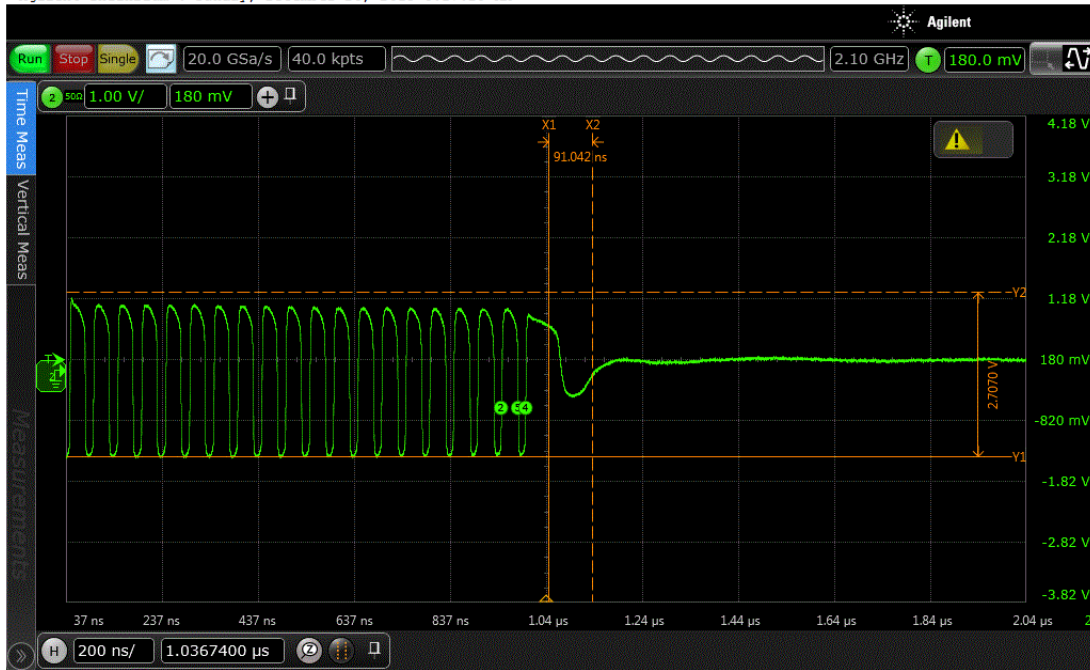


Rise Time (2GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
5ns Per Div. (4.89ns)

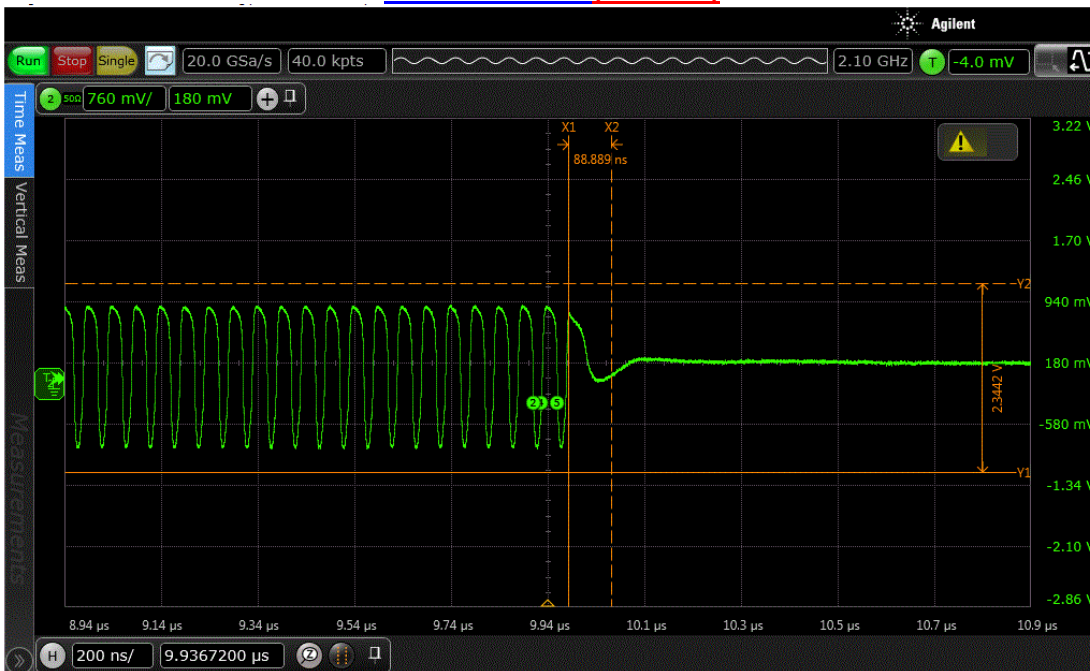


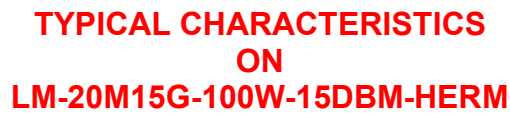
TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (20MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
200ns Per Div. (91.04ns)



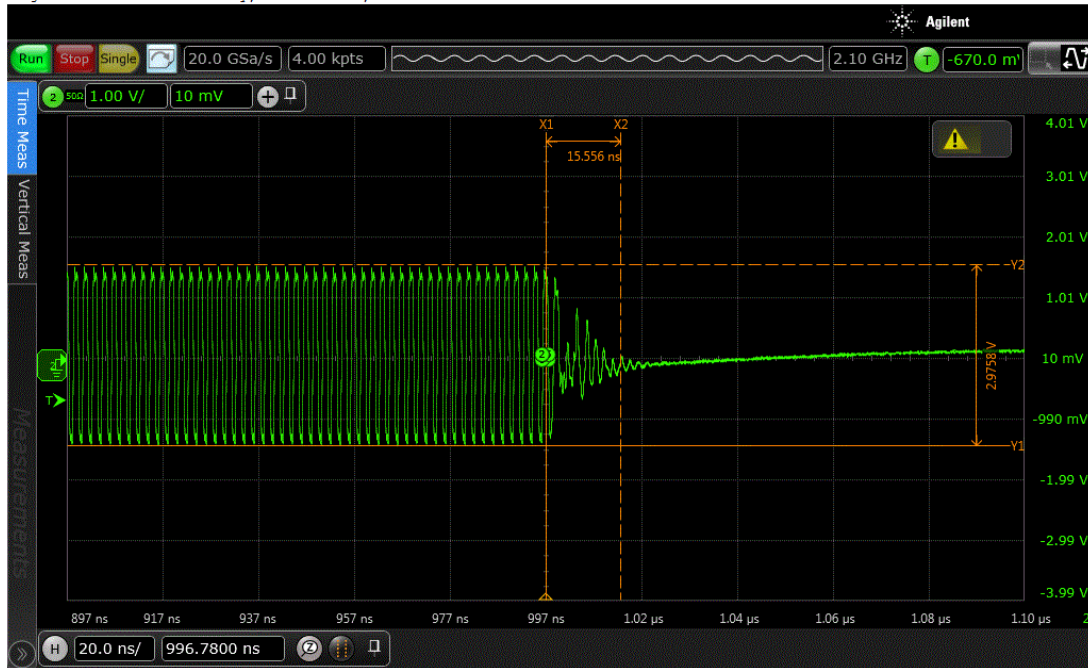
Recovery (20MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
200ns Per Div. (88.88ns)





TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (500MHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
20ns Per Div. (15.56ns)

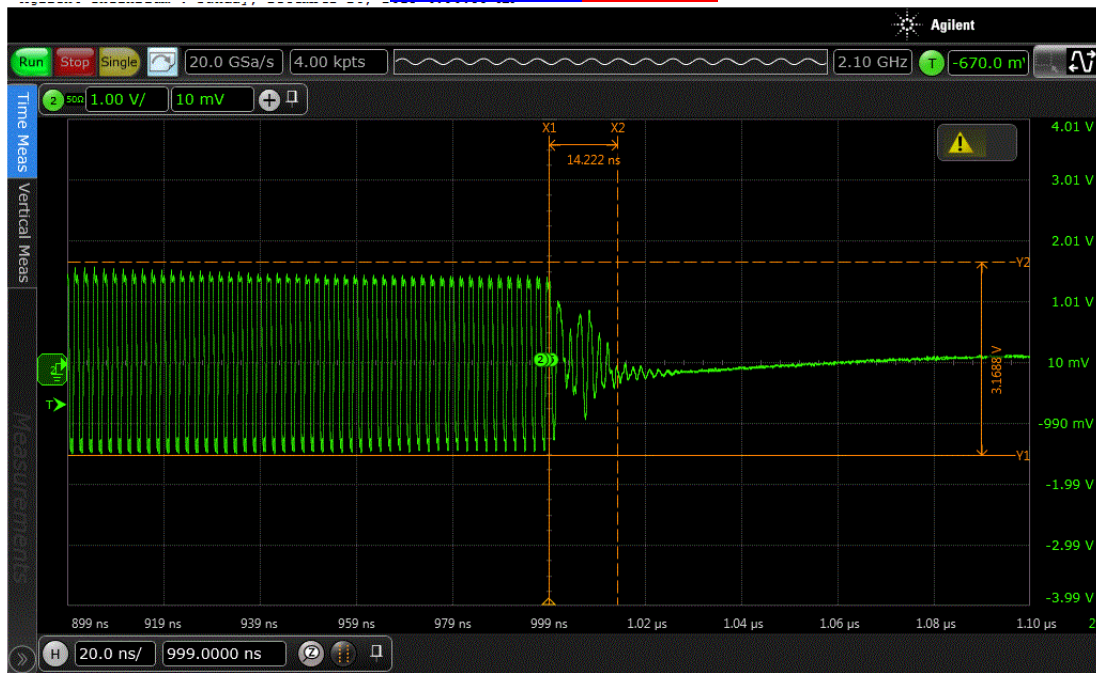


Recovery (500MHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
50ns Per Div. (26.66ns)

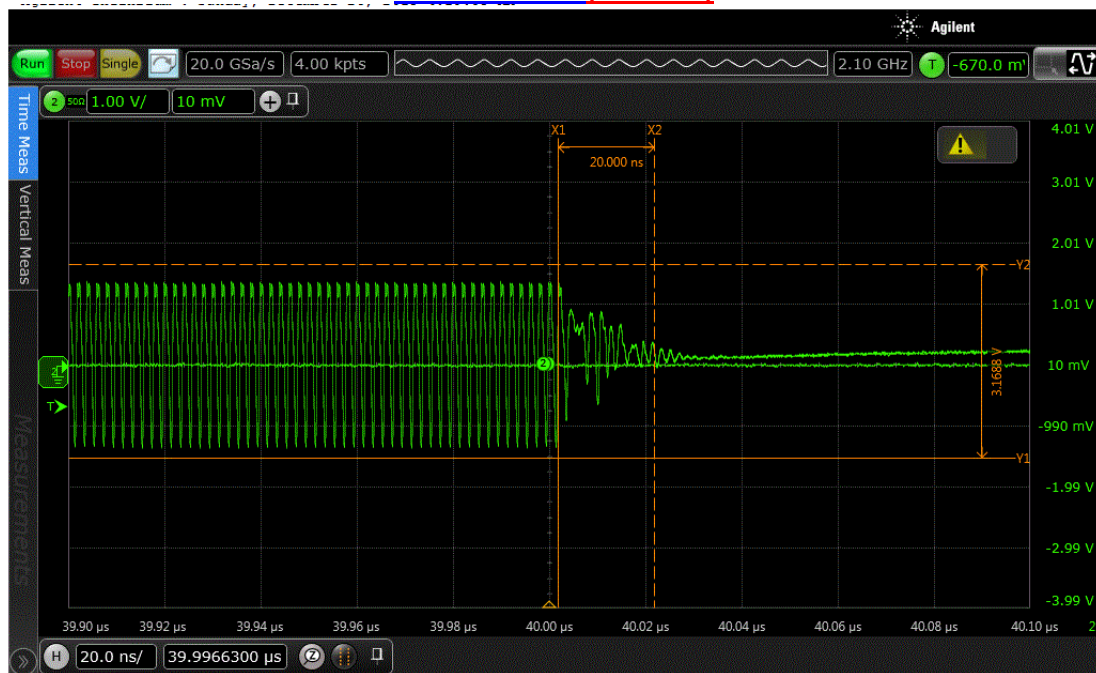


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (500MHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
20ns Per Div. (14.22 ns)

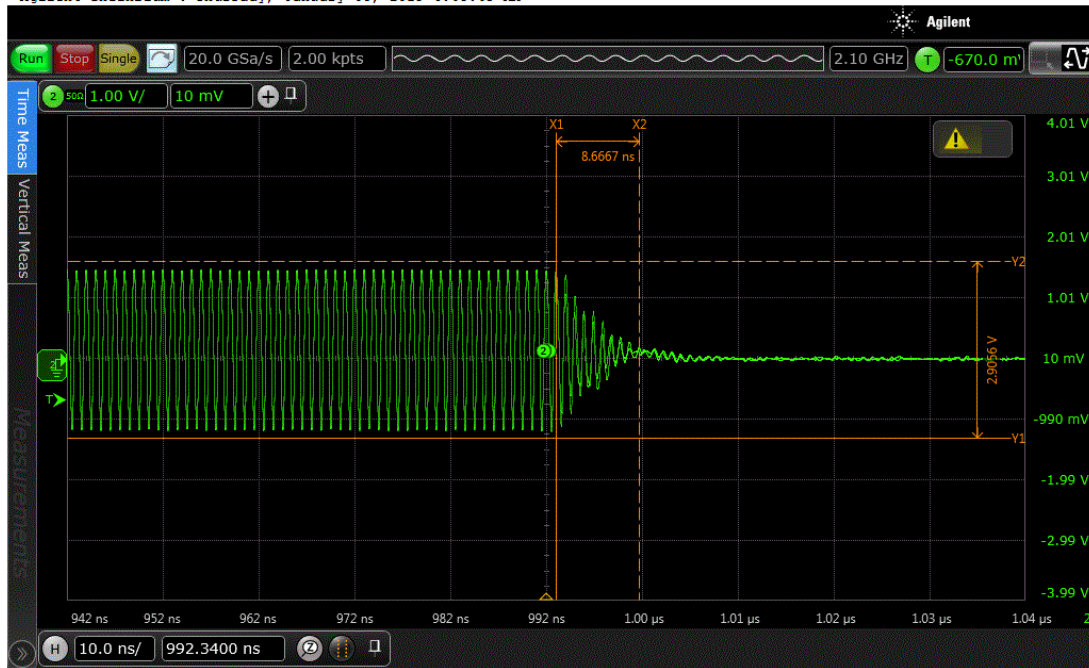


Recovery (500MHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
20ns Per Div. (20.00ns)

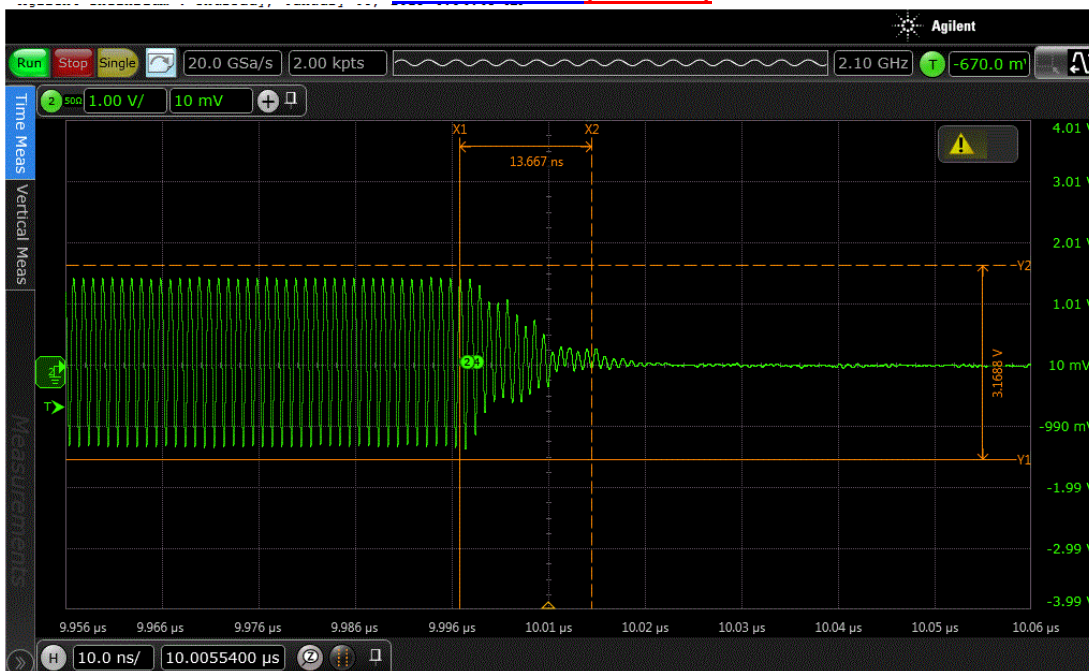


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (1GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
10ns Per Div. (8.66ns)

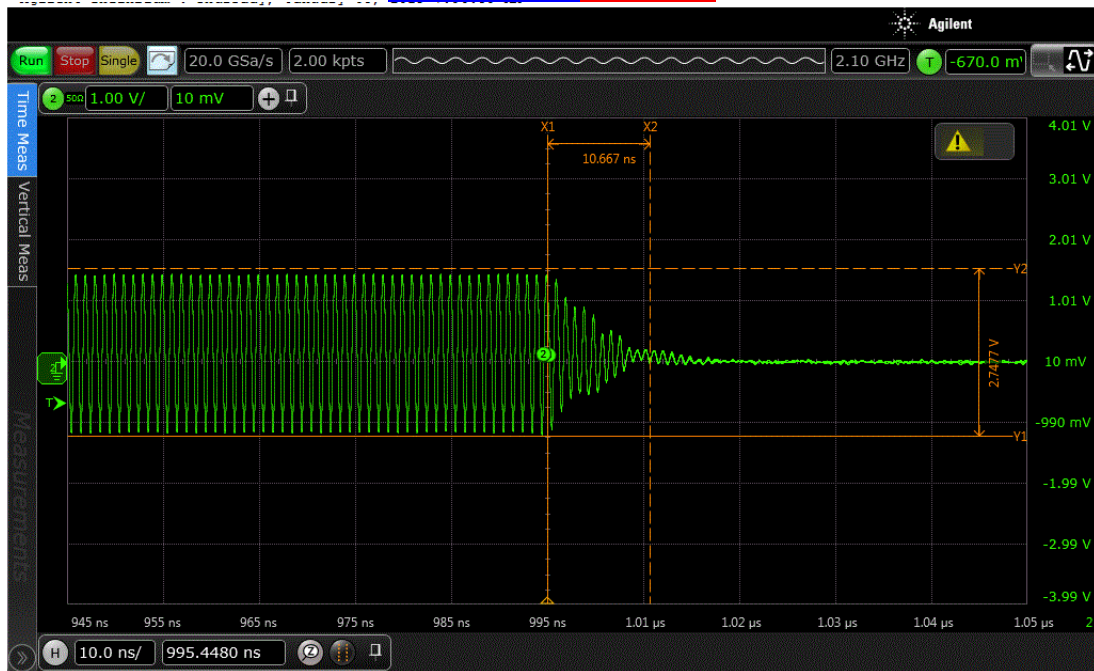


Recovery (1GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
10ns Per Div. (13.68ns)

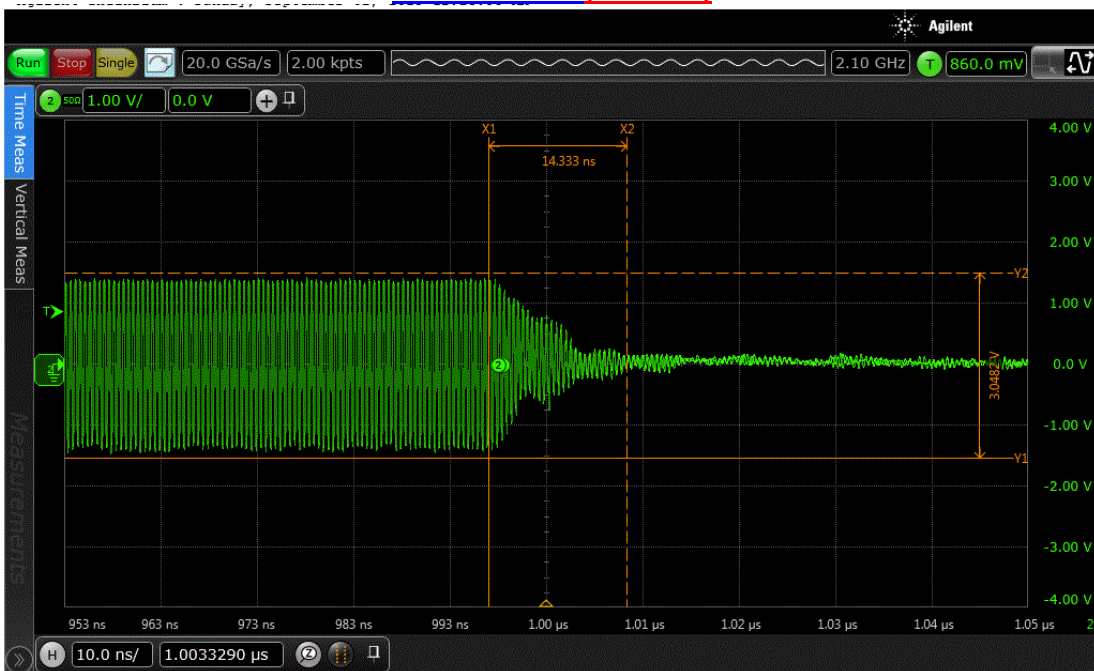


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (1GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz - DC 0.1%
10ns Per Div. (10.68 ns)

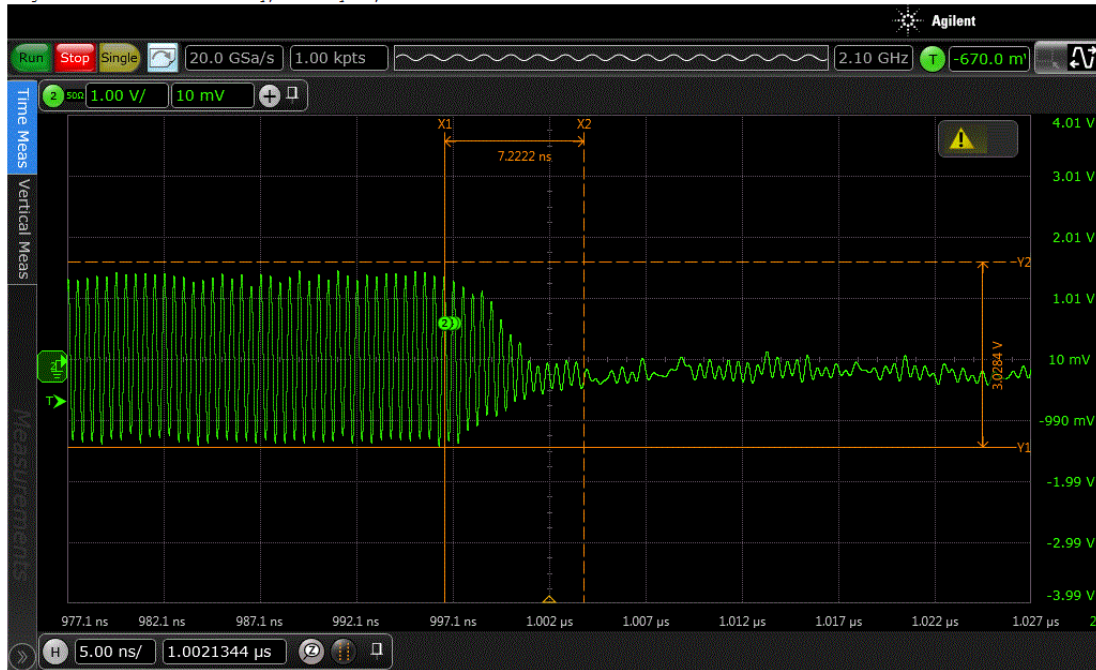


Recovery (1GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz - DC 10%
10ns Per Div. (14.33ns)

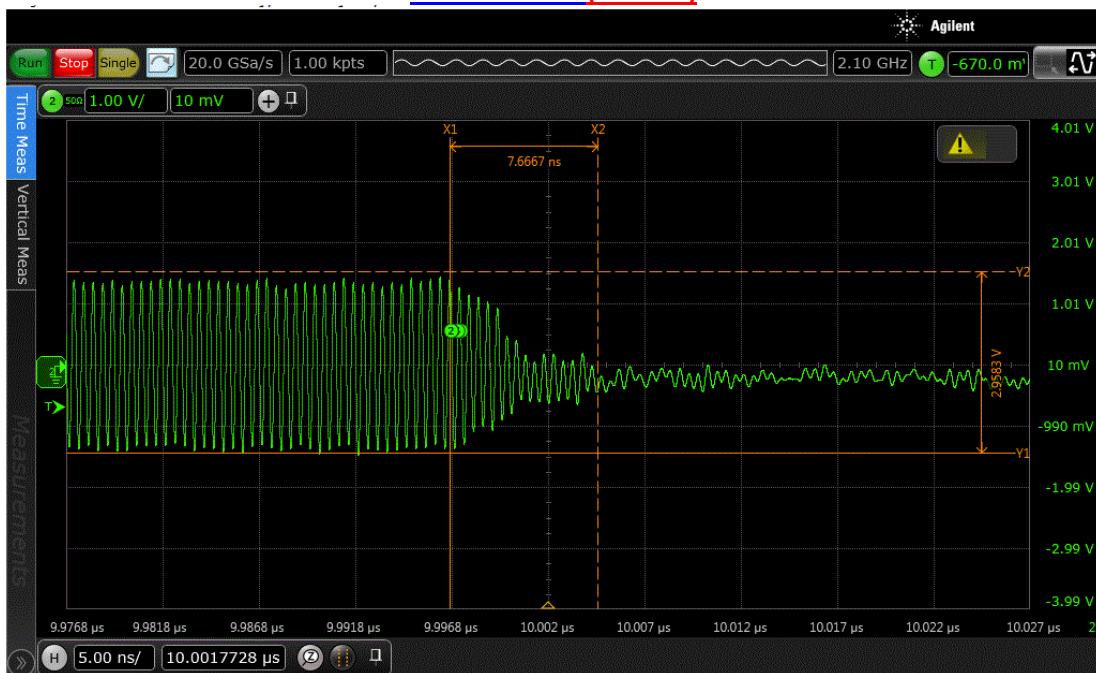


TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (2GHz)
Pulsed RF Input 10W PW 1us - PRF 10KHz – DC 1%
5ns Per Div. (7.22ns)

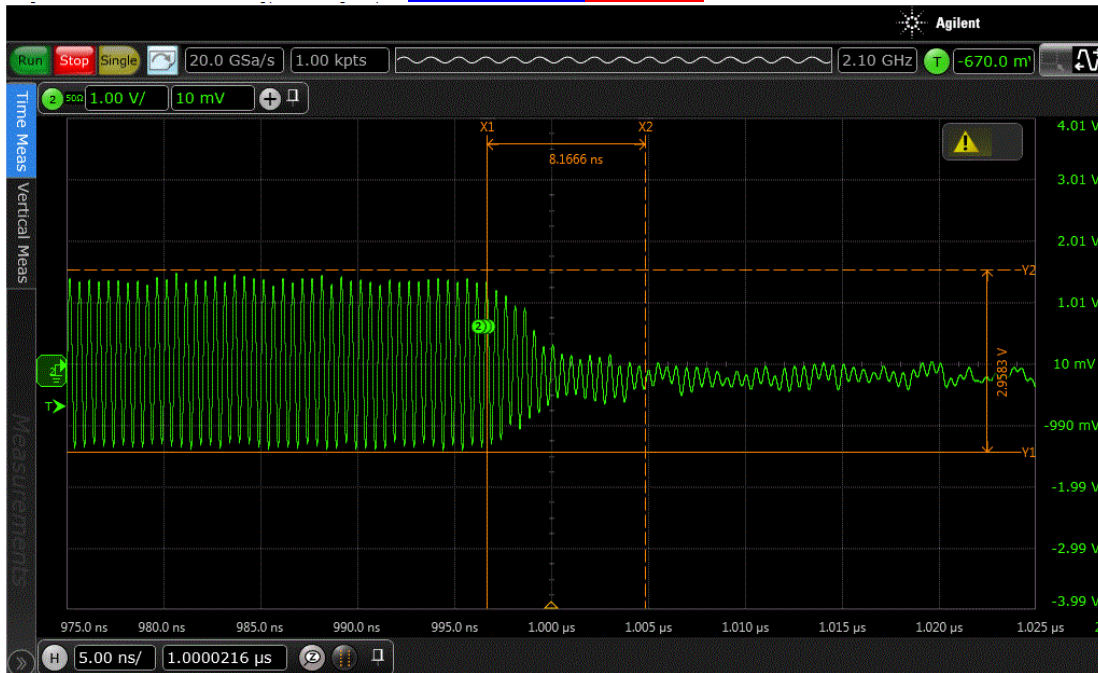


Recovery (2GHz)
Pulsed RF Input 100W PW 10us - PRF 100Hz – DC 0.1%
5ns Per Div. (7.66ns)



TYPICAL CHARACTERISTICS ON LM-20M15G-100W-15DBM-HERM

Recovery (2GHz)
Pulsed RF Input 100W PW 1us - PRF 1KHz – DC 0.1%
5ns Per Div. (8.17 ns)



Recovery (2GHz)
Pulsed RF Input 100W PW 40us - PRF 2.5KHz – DC 10%
5ns Per Div. (9.33ns)

