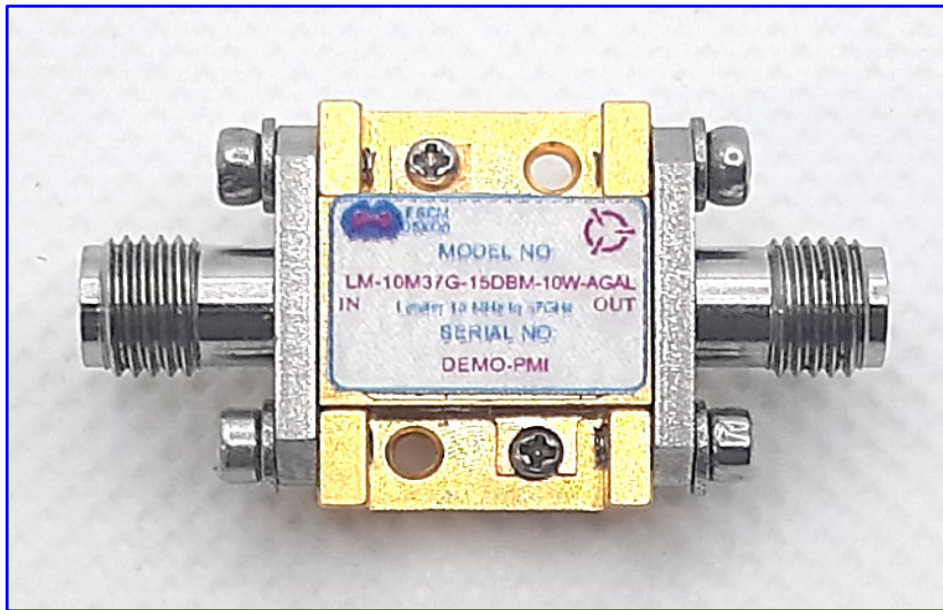




Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

PMI MODEL: LM-10M37G-15DBM-10W-AGAL IS A PASSIVE LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 10 MHz TO 37 GHz. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 TO 10 WATTS CW (20MHz - 18GHz) AND 50 TO 40 WATTS PULSE PEAK POWER (20MHz - 18GHz), WITH 1 μ s PW, 1% DUTY CYCLE, THIS LIMITER USES 2.92 FEMALE CONNECTORS.



October 7, 2020

Designed By:

Dr. Ashok Gorwara

Tested and Reported By:

Alfredo Lopez



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Technical Sheet

DESCRIPTION:

PMI MODEL: LM-10M37G-15DBM-10W-AGAL IS A PASSIVE LIMITER THAT OPERATES IN THE FREQUENCY RANGE OF 10 MHz TO 37 GHz. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER OF 25 WATTS CW (20 MHz - 1 GHz), 10 WATTS CW (2 - 18 GHz), 50 WATTS PULSED PEAK POWER (20 MHz - 12 GHz), AND 40 WATTS PULSED PEAK POWER (18 GHz), WITH 1 μ s PW, 1% DUTY CYCLE. THIS LIMITER USES 2.92 mm FEMALE CONNECTORS.

SPECIFICATIONS:

- FREQUENCY RANGE: 10 MHz TO 37.0 GHz
- POWER HANDLING: 25 WATTS CW MAX (20 MHz TO 1 GHz) (*SEE NOTE 1)
10 WATTS CW MAX (2 TO 18 GHz)
50 WATTS PEAK MAX (20 MHz TO 12 GHz) (*SEE NOTE 2)
40 WATTS PEAK MAX (18 GHz)
(1 μ s PW, 1% DUTY CYCLE)
- RECOVERY TIME: 150 ns TYP.
- INSERTION LOSS @ -10 dBm INPUT POWER: 1.00 dB MAX (10 MHz TO 8 GHz)
2.00 dB MAX (8 GHz TO 18 GHz)
2.70 dB MAX (18 GHz TO 30 GHz)
4.30 dB MAX (30 GHz TO 37 GHz)
- VSWR IN/OUT @ -10 dBm INPUT POWER: 1.8:1 MAX
- FLAT LEAKAGE POWER: +18 dBm TYP (20 MHz)
+20 dBm TYP (1 GHz)
+16 dBm TYP (4 GHz)
+13 dBm TYP (8 GHz)
+10 dBm TYP (18 TO 35 GHz)
+8 dBm TYP (37 GHz)
- P1dB: +6 dBm MIN
- CONNECTORS: 2.92 mm FEMALE
- FINISH: GOLD PLATED

* NOTE 1: 25 WATTS FROM 20 MHz TO 1 GHz, 10 WATTS FROM 2 TO 18 GHz, +28 dBm FROM 20 TO 30 GHz AND +27 dBm FROM 35 TO 37 GHz. (THEORETICALLY IT CAN HANDLE 10 TYPICAL WATTS UP TO 37 GHz.)

* NOTE 2: NO PEAK POWER TESTING WAS PERFORMED BEYOND 18 GHz. (THEORETICALLY THE LIMITER SHOULD HANDLE 40 WATTS TYPICALLY 1 μ s PW, 1% DUTY CYCLE FOR FREQUENCY RANGE 18 TO 37 GHz.)

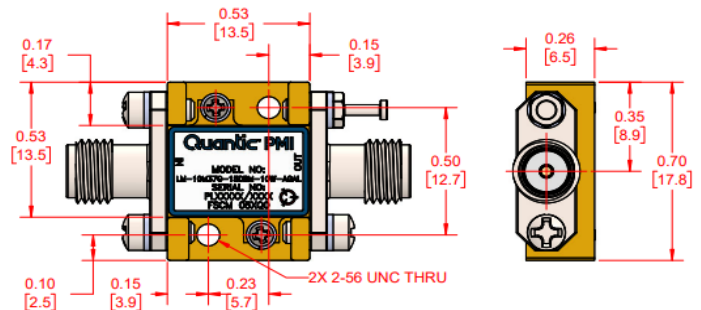
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (NON-OPERATING)
- 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 CYCLING: MIL-STD-202, METHOD 107A COND. A

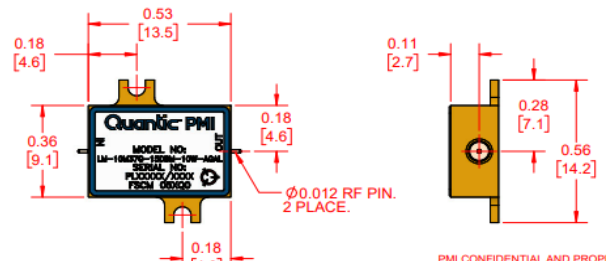
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
A1		ORIGINAL RELEASE	20100803	
A2		ECN # 23-0132	01/10/2003	
B1		ECN # 25-0015	10/2/2004	

HOUSING WITH CARRIER



HOUSING WITHOUT CARRIER (SURFACE MOUNT)



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DESIGNED	J. ESCANO	20100803	OUTLINE	
DRAWN	REDAKARN			
ISSUED			SIZE	750W X 500H
			QTY	27041040
			SCALE	3:1
				SHEET 1 OF 1



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-55°C	+85°C	
1	Frequency Range:	10MHz to 37 GHz	10MHz to 37GHz	10MHz to 37GHz	10MHz to 37GHz	
2	Power Handling	50 Watts Peak Max. (20MHz to 12GHz) 40 Watts Peak Max. (18GHz) 1µs Pw, 1% Duty Cycle * SEE NOTE 2	Pass 50 Watts Peak @ (20MHz to 12GHz) And 40 Watts Peak @ (18GHz)	Pass 50 Watts Peak @ (20MHz to 12GHz) And 40 Watts Peak @ (18GHz)	Pass 50 Watts Peak @ (20MHz to 12GHz) And 40 Watts Peak @ (18GHz)	
			See Graphs	See Graphs	See Graphs	
			Pass 25 Watts CW @ (20MHz to 1GHz) And 10Watts @ (2-18 GHz)	Pass 25 Watts CW @ (20MHz to 1GHz) And 10Watts @ (2-18 GHz)	Pass 25 Watts CW @ (20MHz to 1GHz) And 10Watts @ (2-18 GHz)	
			See Graphs	See Graphs	See Graphs	
3	Insertion Loss	10MHz to 8GHz = 1.00 dB Max. 8 to 18 GHz = 2.00 dB Max 18 to 30GHz = 2.70 dB Max. 30 to 37GHz = 4.30 dB Max.	0.92 dB	0.82 dB	0.94 dB	
			1.55 dB	1.44 dB	1.72 dB	
			2.23 dB	1.96 dB	2.51 dB	
			3.59 dB	3.09 dB	4.19 dB	
			See Graphs	See Graphs	See Graphs	
4	VSWR (in/out)	1.8:1 Max. (10MHz to 37GHz)	1.69:1 In	1.78:1 In	1.77:1 In	
			1.65:1 Out	1.73:1 In	1.77:1 In	
			See Graphs	See Graphs	See Graphs	
5	Flat Leakage Power	20MHz (+18 dBm Typ.) 1 GHz (+20 dBm Typ.) 4 GHz (+16 dBm Typ.) 8 GHz(+13 dBm Typ.) 18 GHz(+10 dBm Typ.) 20 GHz (+10 dBm Typ.) 25 GHz (+10 dBm Typ.) 30 GHz (+10 dBm Typ.) 35 GHz (+10 dBm Typ.) 37 GHz (+8 dBm Typ.)	18.72 dBm	19.2 dBm	17.6 dBm	
			20.45 dBm	20.82 dBm	16.3 dBm	
			16.25 dBm	16.3 dBm	16.1 dBm	
			13.26 dBm	13.38 dBm	13.25 dBm	
			10.93 dBm	11.39 dBm	10.15 dBm	
			9.7 dBm	10.8 dBm	9.35 dBm	
			9.1 dBm	10.42 dBm	8.7 dBm	
			8.19 dBm	8.8 dBm	7.68 dBm	
			8.57 dBm	9.07 dBm	8.44 dBm	
			6.33 dBm	6.23 dBm	6.66 dBm	
			See Graphs	See Graphs	See Graphs	
6	P1dB	+6 dBm Min. (20MHz to 37GHz)	12 dBm Max.	12.5 dBm Max.	11.5 dBm Max.	
			7 dBm Min.	8.5 dBm Min.	7 dBm Min.	
			See Graphs	See Graphs	See Graphs	
7	Recovery Time	150ns Typ.	150ns See Plots	150ns See Plots	150ns See Plots	

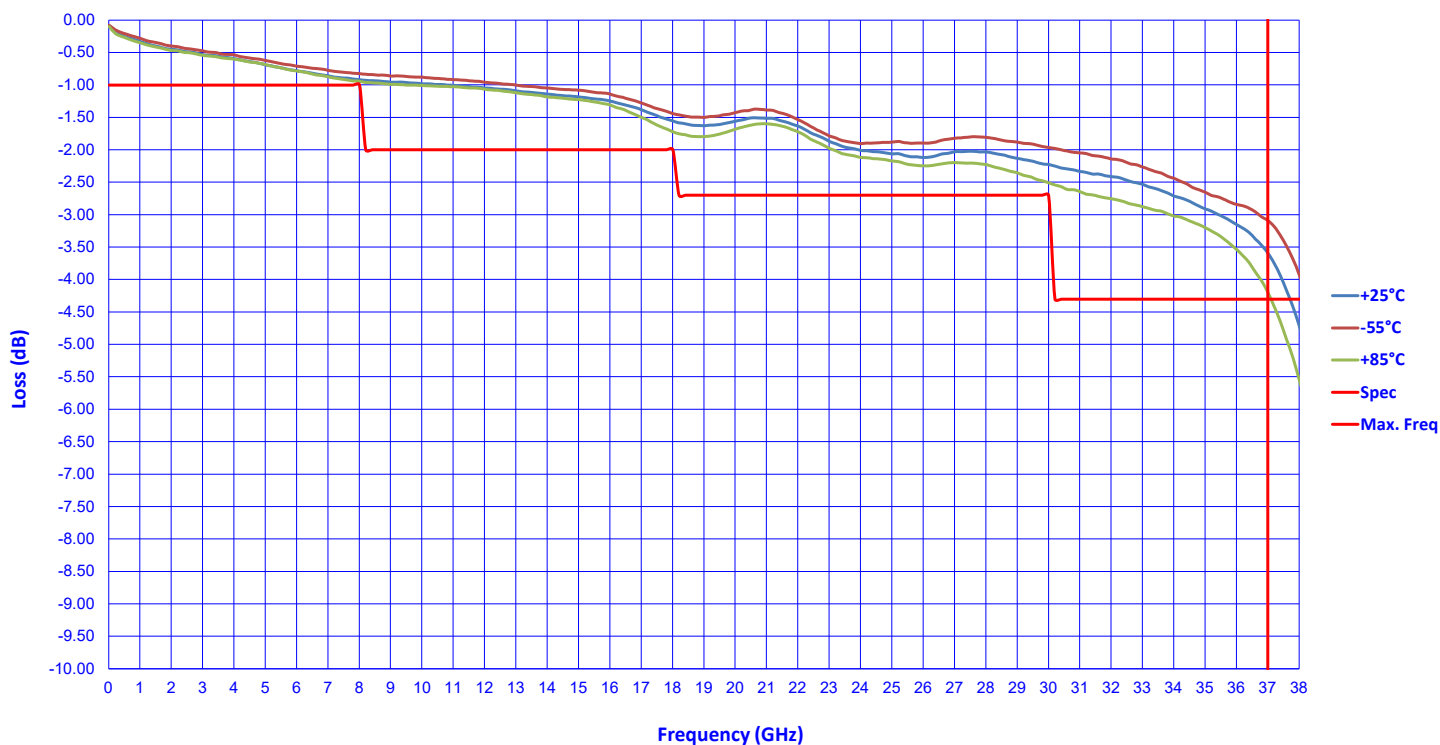
NOTE 1: 25 Watts from 20MHz to 1 GHz, 10 Watts from 2GHz to 18 GHz, +28 dBm from 20 to 30 GHz and + 27dBm from 35 to 37dBm (Theoretically it can handle 10 Typical Watts up to 37GHz)

NOTE 2: No Peak Power testing was performed beyond 18GHz, Theoretically the limiter should handle 40 Watts Typically 1µs PW, 1% Duty Cycle for Frequency Range 18GHz to 37GHz

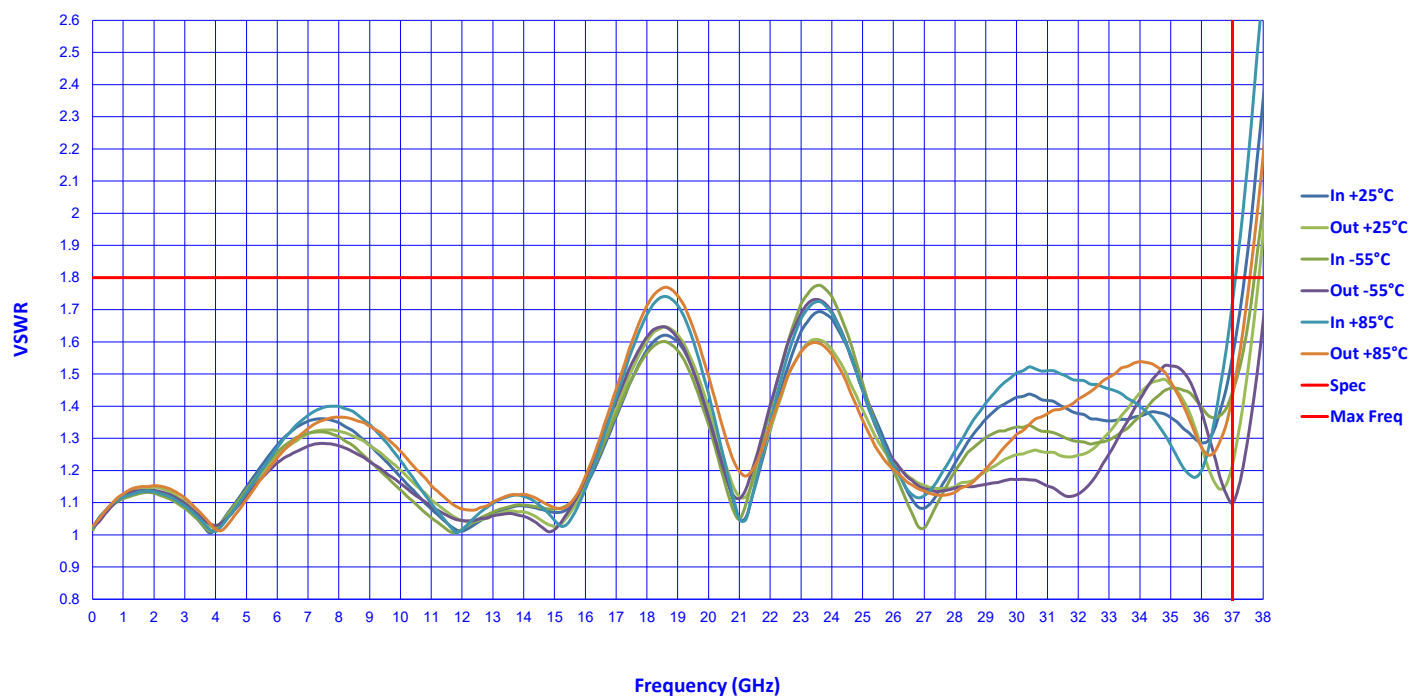


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Insertion Loss



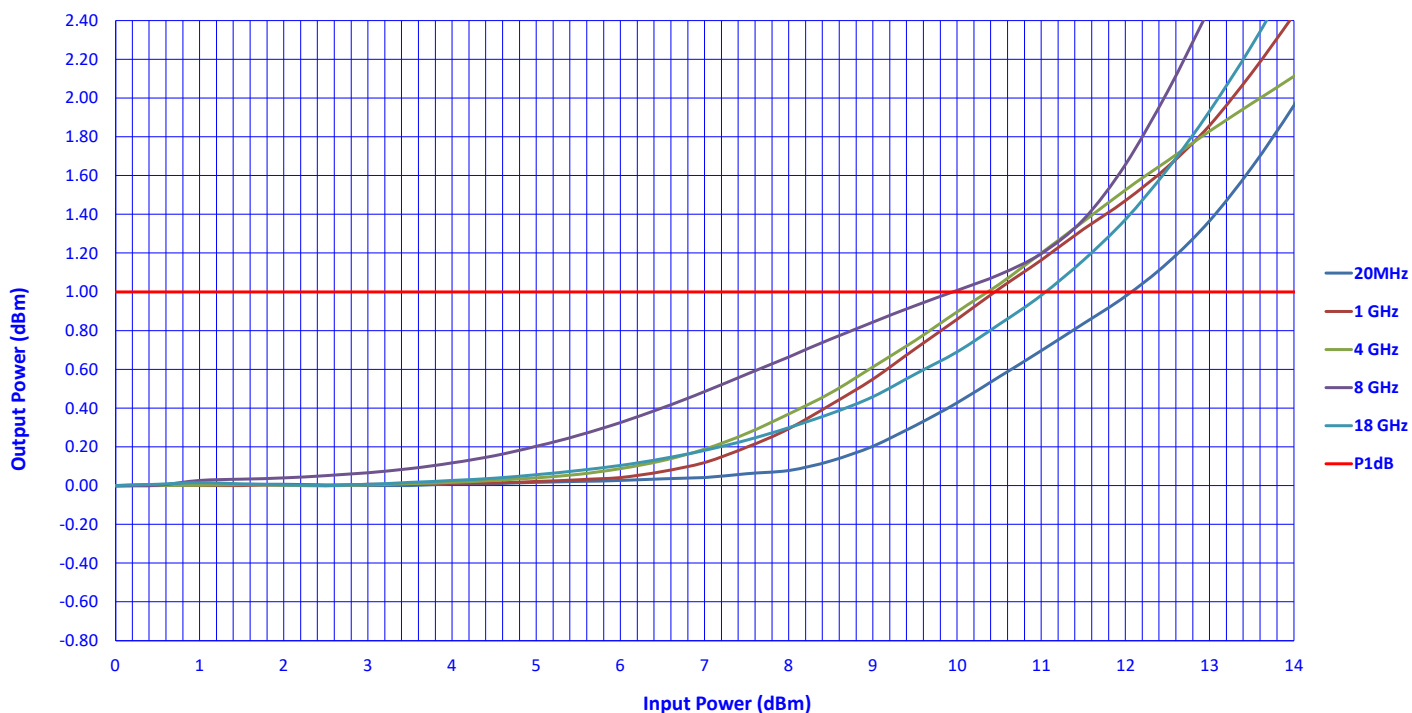
VSWR



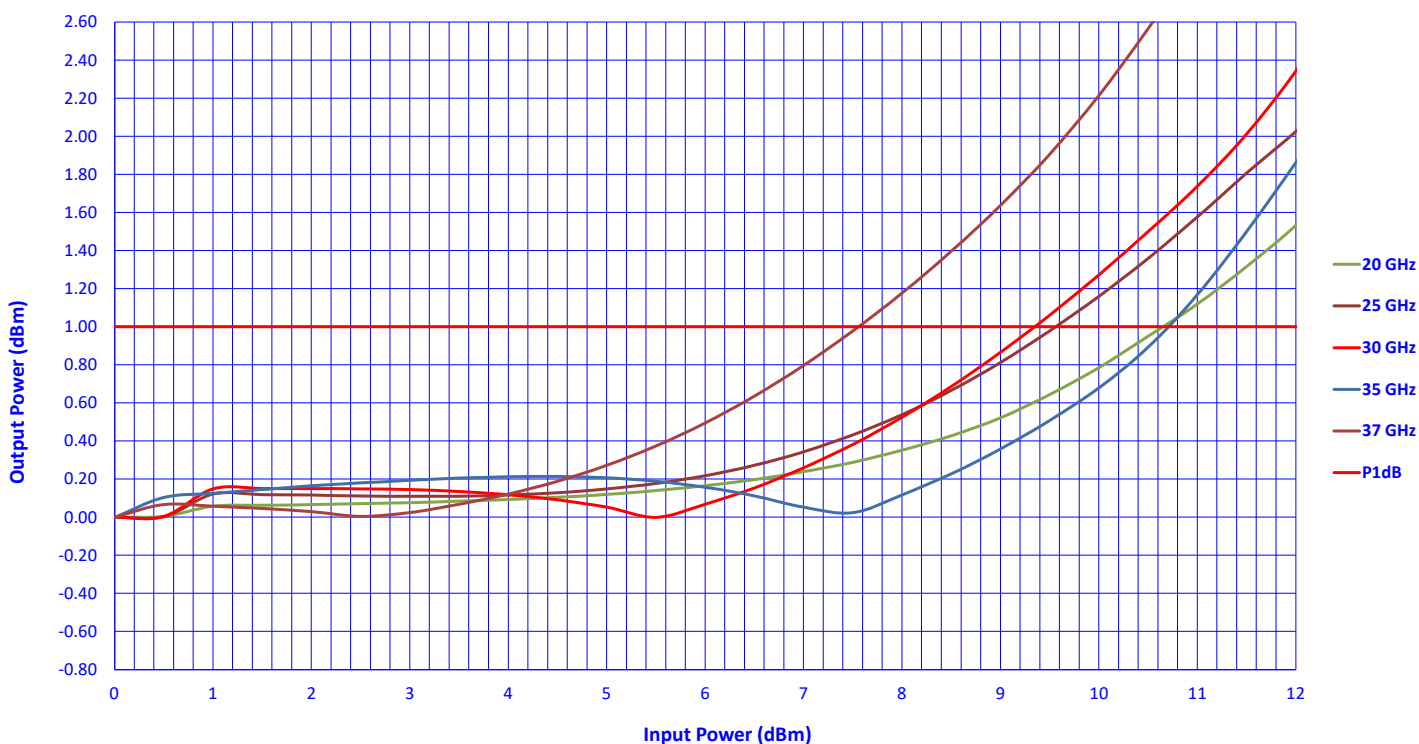


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

P1dB Graph 20MHz to 18GHz @ (+25°C)



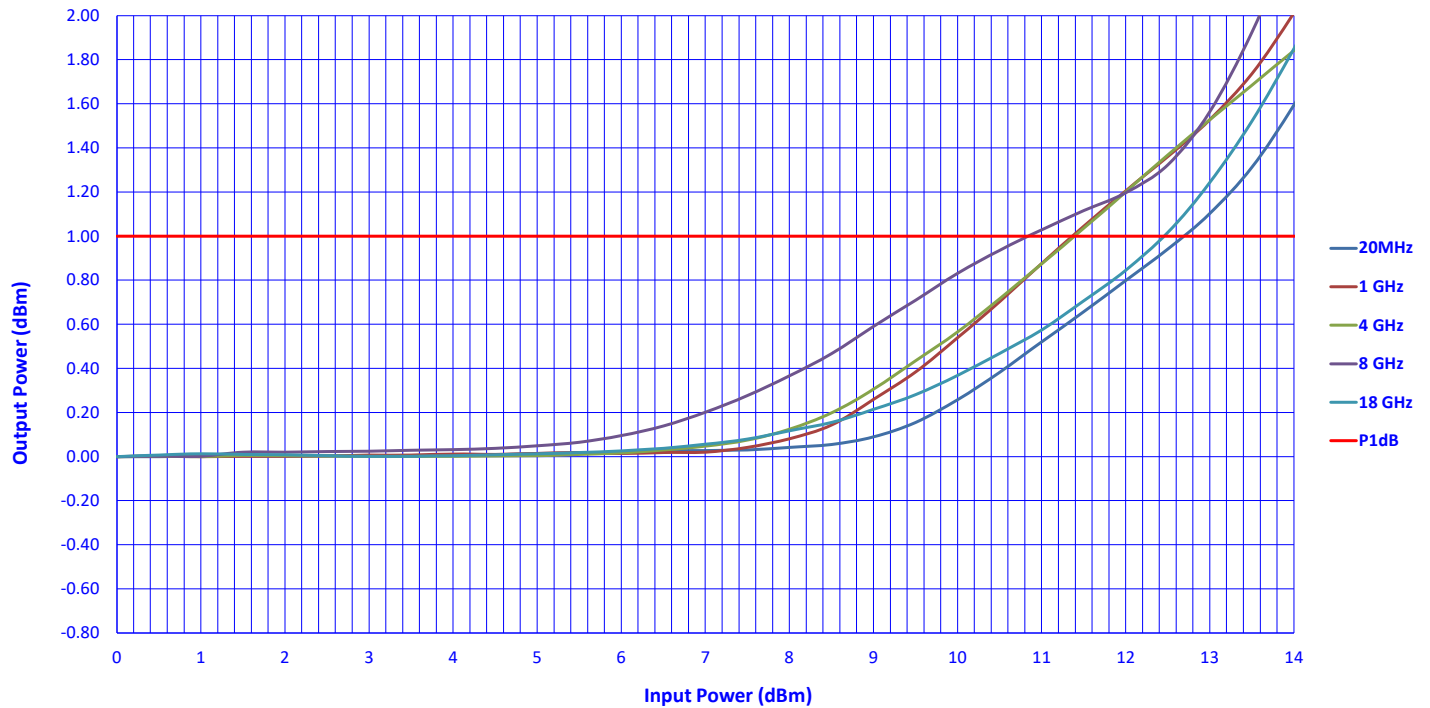
P1dB Graph 20 GHz to 37GHz @ (+25°C)



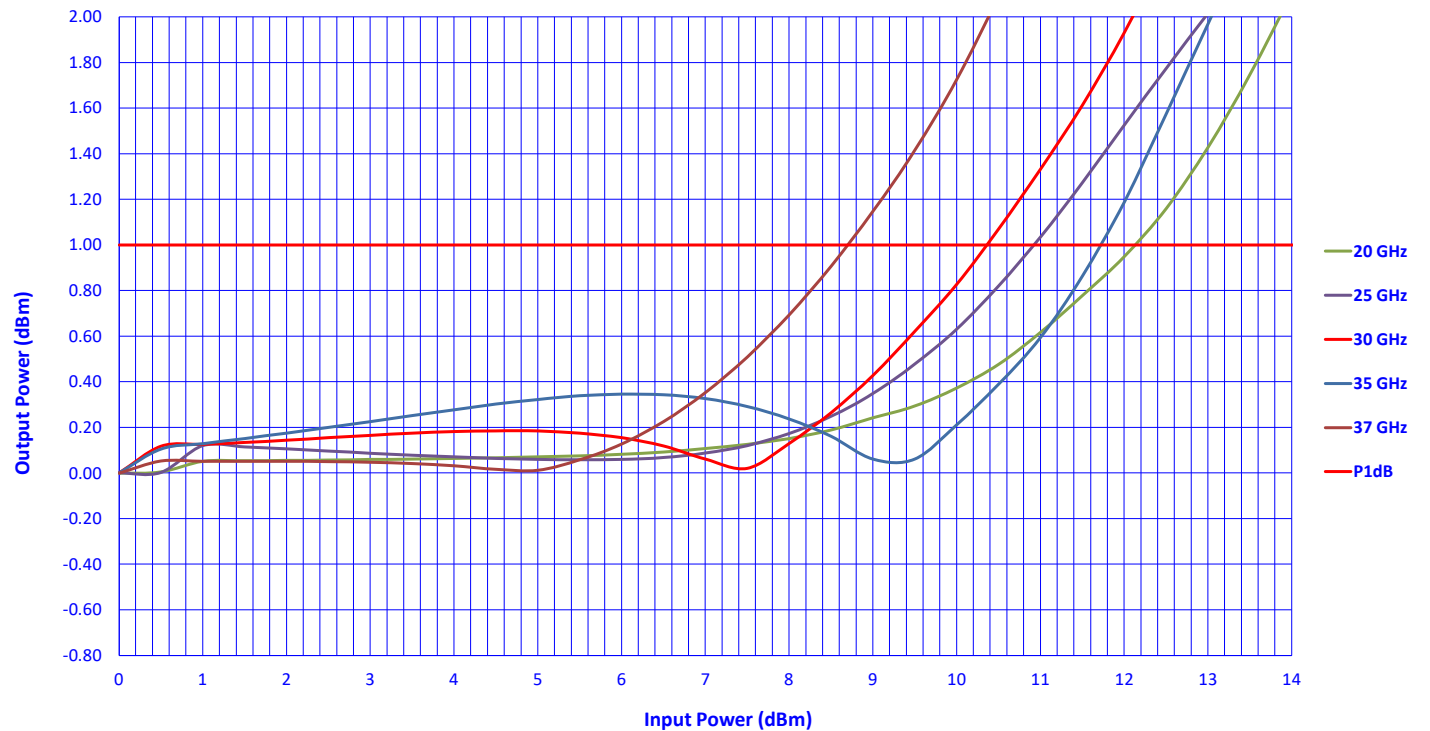


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

P1dB 20MHz to 18GHz @ (-55°C)



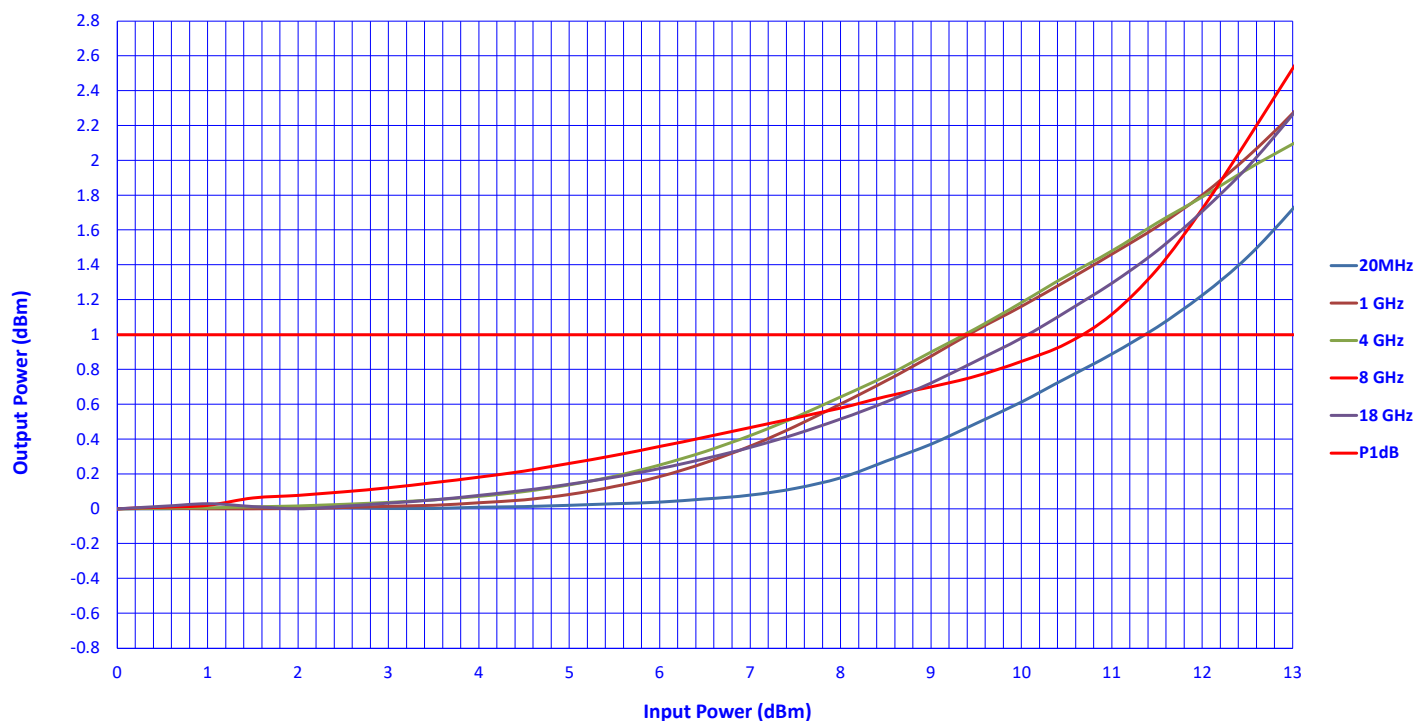
P1dB 20GHz to 40GHz @ (-55°C)



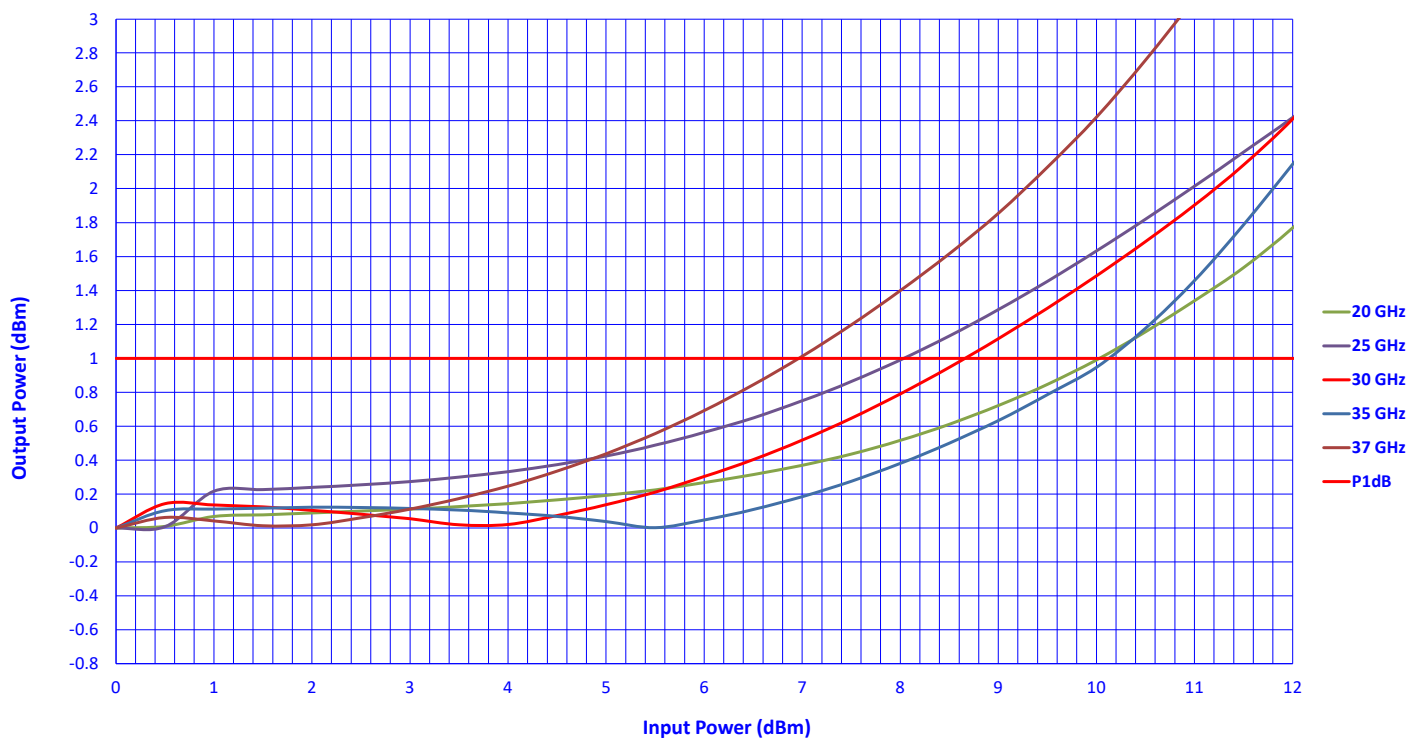


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

P1dB 20MHz to 18GHz @ (+85°C)



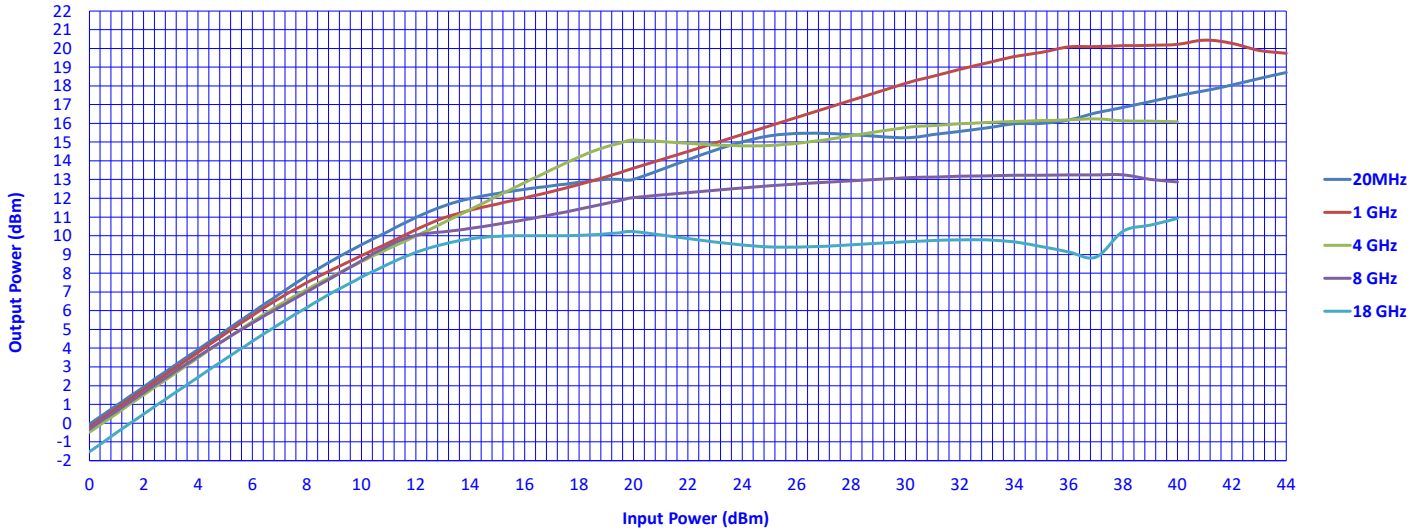
P1dB 20GHz to 37GHz @ (+85°C)





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

High Power Test Graph 20MHz to 18GHz CW (+25°C)

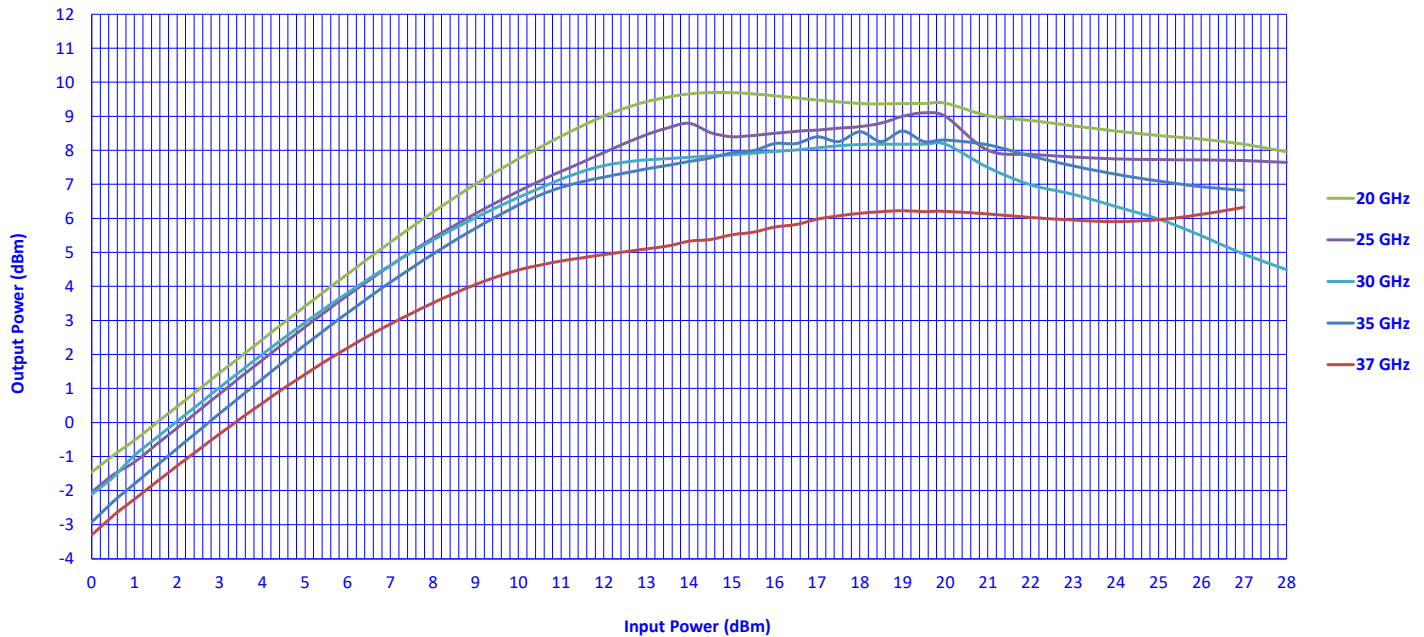


High Power Test Data 20MHz to 18GHz (CW)																
Power Input (dBm)	20MHz			1 GHz			4 GHz			8 GHz			18 GHz			Power Input (Watts)
	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	
0.0	-0.04	0.04	0.000	-0.20	0.20	0.000	-0.48	0.48	0.000	-0.31	0.31	0.000	-1.51	1.51	0.000	
0.5	0.45	0.05	0.001	0.30	0.20	0.006	0.02	0.48	0.002	0.18	0.32	0.003	-1.02	1.52	0.008	
1.0	0.95	0.05	0.004	0.80	0.20	0.002	0.52	0.48	0.002	0.66	0.34	0.027	-0.49	1.49	0.016	
1.5	1.45	0.05	0.007	1.30	0.20	0.002	1.03	0.47	0.006	1.15	0.35	0.034	0.00	1.50	0.010	
2.0	1.95	0.05	0.007	1.81	0.19	0.004	1.52	0.48	0.002	1.65	0.35	0.040	0.50	1.50	0.005	
2.5	2.46	0.04	0.005	2.30	0.20	0.001	2.02	0.48	0.000	2.13	0.37	0.052	0.99	1.51	0.001	
3.0	2.96	0.04	0.002	2.80	0.20	0.007	2.52	0.48	0.005	2.62	0.38	0.068	1.48	1.52	0.007	
3.5	3.45	0.05	0.002	3.30	0.20	0.007	3.01	0.49	0.010	3.10	0.40	0.088	1.97	1.53	0.017	
4.0	3.95	0.05	0.009	3.79	0.21	0.013	3.50	0.50	0.017	3.57	0.43	0.118	2.46	1.54	0.027	
4.5	4.44	0.06	0.011	4.29	0.21	0.014	3.99	0.51	0.028	4.03	0.47	0.155	2.95	1.55	0.039	
5.0	4.94	0.06	0.018	4.78	0.22	0.022	4.48	0.52	0.041	4.48	0.52	0.203	3.43	1.57	0.057	
5.5	5.43	0.07	0.022	5.27	0.23	0.032	4.96	0.54	0.060	4.93	0.57	0.260	3.91	1.59	0.078	
6.0	5.93	0.07	0.027	5.76	0.24	0.043	5.43	0.57	0.088	5.36	0.64	0.327	4.38	1.62	0.105	
6.5	6.42	0.08	0.036	6.23	0.27	0.073	5.89	0.61	0.130	5.78	0.72	0.402	4.85	1.65	0.140	
7.0	6.91	0.09	0.043	6.68	0.32	0.120	6.33	0.67	0.190	6.20	0.80	0.486	5.31	1.69	0.183	
7.5	7.39	0.11	0.062	7.10	0.40	0.199	6.75	0.75	0.270	6.61	0.89	0.575	5.76	1.75	0.235	
8.0	7.88	0.12	0.079	7.51	0.49	0.294	7.15	0.85	0.371	7.02	0.98	0.665	6.19	1.81	0.300	
8.5	8.33	0.17	0.128	7.88	0.62	0.419	7.54	0.96	0.479	7.43	1.07	0.758	6.62	1.88	0.373	
9.0	8.75	0.25	0.205	8.25	0.75	0.551	7.91	1.09	0.614	7.84	1.16	0.844	7.03	1.97	0.459	
9.5	9.14	0.36	0.310	8.60	0.90	0.707	8.27	1.23	0.749	8.26	1.24	0.930	7.41	2.09	0.576	
10.0	9.53	0.47	0.428	8.94	1.06	0.859	8.62	1.38	0.898	8.68	1.32	1.008	7.80	2.20	0.691	P1dB
10.5	9.89	0.61	0.562	9.29	1.21	1.016	8.98	1.52	1.040	9.10	1.40	1.089	8.16	2.34	0.833	
11.0	10.26	0.74	0.698	9.64	1.36	1.166	9.32	1.68	1.201	9.49	1.51	1.199	8.51	2.49	0.983	
11.5	10.62	0.88	0.836	9.98	1.52	1.323	9.66	1.84	1.363	9.81	1.69	1.374	8.83	2.67	1.164	
12.0	10.98	1.02	0.978	10.33	1.67	1.472	9.99	2.01	1.527	10.03	1.97	1.659	9.12	2.88	1.375	
12.5	11.31	1.20	1.150	10.66	1.84	1.646	10.34	2.16	1.678	10.15	2.35	2.034	9.36	3.14	1.634	
13.0	11.59	1.41	1.368	10.94	2.06	1.861	10.69	2.31	1.830	10.22	2.78	2.467	9.56	3.44	1.934	
13.5	11.81	1.69	1.642	11.17	2.33	2.130	11.05	2.45	1.972	10.29	3.21	2.894	9.72	3.78	2.271	
14.0	11.99	2.01	1.963	11.37	2.63	2.432	11.41	2.59	2.113	10.40	3.60	3.286	9.84	4.16	2.654	
14.5	12.14	2.36	2.314	11.55	2.95	2.756	11.77	2.73	2.254	10.51	3.99	3.675	9.93	4.57	3.064	
15.0	12.27	2.73	2.684	11.71	3.29	3.094	12.14	2.87	2.385	10.62	4.38	4.064	9.98	5.02	3.508	
15.5	12.38	3.12	3.071	11.87	3.63	3.430	12.49	3.01	2.529	10.74	4.76	4.443	10.01	5.50	3.985	
16.0	12.49	3.52	3.470	12.03	3.97	3.770	12.85	3.15	2.672	10.86	5.14	4.829	10.01	5.99	4.476	
16.5	12.58	3.92	3.874	12.20	4.30	4.105	13.20	3.31	2.825	10.99	5.51	5.192	10.01	6.49	4.976	
17.0	12.68	4.32	4.277	12.37	4.63	4.431	13.54	3.46	2.980	11.13	5.87	5.554	10.01	6.99	5.476	
17.5	12.77	4.73	4.689	12.55	4.95	4.749	13.88	3.62	3.139	11.28	6.22	5.904	10.01	7.49	5.976	
18.0	12.86	5.14	5.099	12.74	5.26	5.063	14.21	3.79	3.306	11.43	6.57	6.257	10.03	7.97	6.456	
18.5	12.94	5.56	5.515	12.95	5.56	5.358	14.51	3.99	3.507	11.58	6.92	6.607	10.06	8.44	6.930	
19.0	13.02	5.98	5.933	13.16	5.84	5.643	14.75	4.25	3.768	11.73	7.27	6.956	10.11	8.90	7.385	
19.5	13.02	6.48	6.433	13.38	6.12	5.921	14.95	4.55	4.072	11.89	7.61	7.295	10.17	9.33	7.822	
20.0	13.02	6.98	6.933	13.61	6.39	6.197	15.11	4.89	4.409	12.05	7.95	7.638	10.23	9.77	8.257	
25.0	15.34	9.66	9.615	15.86	9.14	8.943	14.82	10.18	9.700	12.67	12.33	12.016	9.42	15.58	14.070	
30.0	15.24	14.76	14.715	18.14	11.86	11.663	15.79	14.21	13.730	13.10	16.90	16.586	9.69	20.31	18.800	1.00
31.0	15.40	15.60	15.555	18.51	12.49	12.293	15.89	15.11	14.630	13.14	17.86	17.546	9.75	21.25	19.740	1.26
32.0	15.58	16.42	16.375	18.89	13.11	12.913	15.98	16.02	15.540	13.18	18.82	18.506	9.79	22.21	20.700	1.58
33.0	15.77	17.23	17.185	19.24	13.76	13.563	16.05	16.95	16.470	13.21	19.79	19.476	9.78	23.22	21.710	2.00
34.0	15.98	18.02	17.975	19.57	14.43	14.233	16.10	17.90	17.420	13.23	20.77	20.456	9.68	24.32	22.810	2.51
35.0	16.01	18.99	18.945	19.79	15.21	15.013	16.15	18.85	18.370	13.24	21.76	21.446	9.43	25.57	24.060	3.16
36.0	16.19	19.81	19.765	20.08	15.92	15.723	16.20	19.80	19.320	13.25	22.75	22.436	9.14	26.86	25.350	3.98
37.0	16.56	20.44	20.395	20.10	16.90	16.703	16.25	20.75	20.270	13.25	23.75	23.436	8.87	28.13	26.620	5.01
38.0	16.86	21.14	21.095	20.15	17.85	17.653	16.14	21.86	21.380	13.26	24.74	24.426	10.25	27.75	26.240	6.31
39.0	17.17	21.83	21.785	20.17	18.83	18.633	16.12	22.88	22.400	13.02	25.98	25.666	10.58	28.42	26.910	7.94
40.0	17.48	22.52	22.475	20.22	19.78	19.583	16.09	23.91	23.430	12.88	27.12	26.806	10.93	29.07	27.560	10.00
41.0	17.75	23.25	23.205	20.45	20.55	20.353	DO NOT EXCEED									12.59
42.0	18.05	23.95	23.905	20.28	21.72	21.523										15.85
43.0	18.40	24.60	24.555	19.90	23.10	22.903										19.95
44.0	18.72	25.28	25.235	19.75	24.25	24.053										25.12
DO NOT EXCEED																



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

High Power Test Graph 20GHz to 37GHz CW (+25°C)



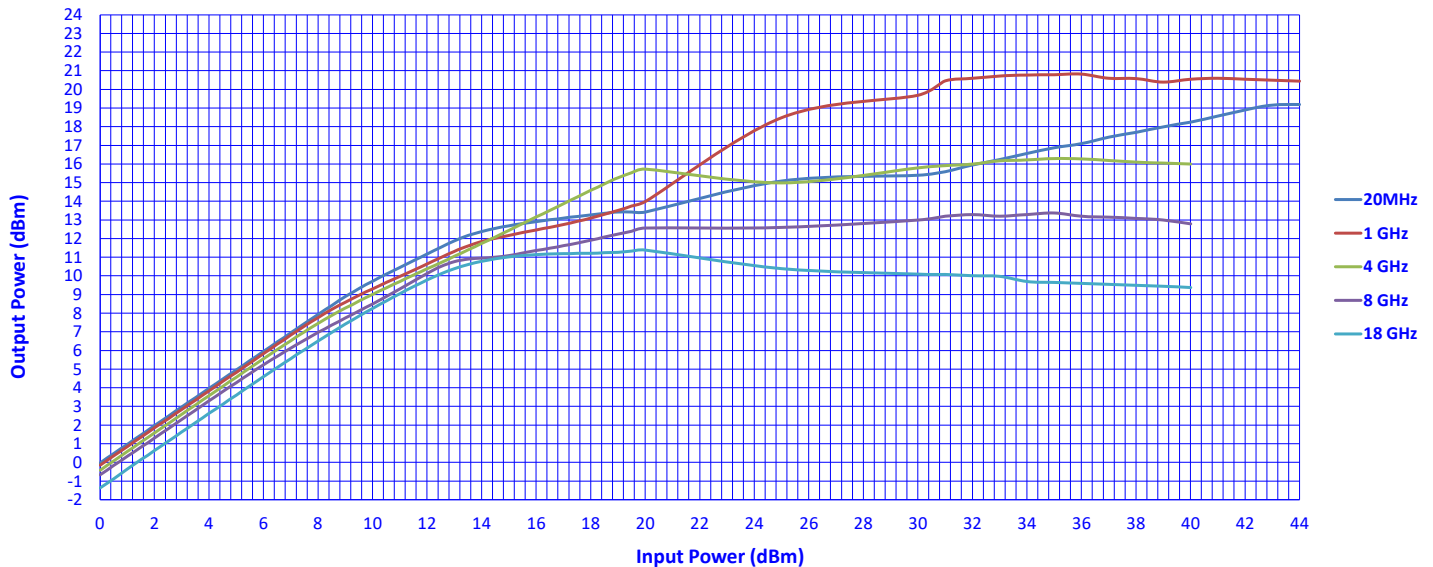
High Power Test Data 20 GHz to 37 GHz (CW)

Power Input (dBm)	20 GHz				25 GHz				30 GHz				35 GHz				37 GHz				P1dB
	Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)		
0.0	-1.459	1.459	0.000		-2.037	2.037	0.000		-2.108	2.108	0.000		-2.922	2.922	0.000		-3.302	3.302	0.000		
0.5	-0.964	1.464	0.005		-1.534	2.034	0.003		-1.604	2.104	0.004		-2.318	2.818	0.104		-2.735	3.235	0.067		
1.0	-0.518	1.518	0.059		-1.159	2.159	0.122		-0.959	1.959	0.149		-1.797	2.797	0.125		-2.244	3.244	0.058		
1.5	-0.022	1.522	0.063		-0.656	2.156	0.119		-0.457	1.957	0.151		-1.277	2.777	0.145		-1.756	3.256	0.046		
2.0	0.475	1.525	0.066		-0.154	2.154	0.117		0.042	1.958	0.150		-0.756	2.756	0.166		-1.272	3.272	0.030		
2.5	0.970	1.530	0.071		0.351	2.149	0.112		0.541	1.959	0.149		-0.242	2.742	0.180		-0.797	3.297	0.005		
3.0	1.464	1.536	0.077		0.853	2.147	0.110		1.037	1.963	0.145		0.272	2.728	0.194		-0.327	3.327	0.025		
3.5	1.957	1.544	0.085		1.352	2.148	0.111		1.527	1.973	0.135		0.783	2.717	0.205		0.129	3.371	0.069		
4.0	2.448	1.552	0.093		1.846	2.155	0.118		2.011	1.990	0.119		1.291	2.709	0.213		0.576	3.424	0.122		
4.5	2.936	1.564	0.105		2.334	2.166	0.129		2.484	2.016	0.092		1.792	2.708	0.214		1.009	3.491	0.189		
5.0	3.421	1.579	0.120		2.814	2.186	0.149		2.945	2.055	0.053		2.285	2.715	0.207		1.425	3.575	0.273		
5.5	3.901	1.599	0.140		3.285	2.215	0.178		3.392	2.108	0.000		2.767	2.733	0.189		1.823	3.677	0.375		
6.0	4.375	1.625	0.166		3.745	2.255	0.218		3.823	2.177	0.069		3.236	2.764	0.158		2.202	3.798	0.496		
6.5	4.843	1.657	0.198		4.190	2.310	0.273		4.237	2.263	0.155		3.691	2.809	0.113		2.562	3.938	0.636		
7.0	5.302	1.698	0.239		4.619	2.381	0.344		4.632	2.368	0.260		4.131	2.869	0.053		2.901	4.099	0.797		
7.5	5.752	1.748	0.289		5.030	2.470	0.433		5.010	2.491	0.383		4.553	2.947	0.025		3.220	4.281	0.979		
8.0	6.189	1.811	0.352		5.424	2.576	0.539		5.366	2.634	0.526		4.960	3.040	0.118		3.521	4.479	1.177		
8.5	6.613	1.887	0.428		5.797	2.703	0.666		5.705	2.795	0.687		5.349	3.151	0.229		3.801	4.699	1.397		
9.0	7.019	1.981	0.522		6.151	2.850	0.813		6.026	2.974	0.866		5.719	3.281	0.359		4.060	4.940	1.638		
9.5	7.396	2.104	0.645		6.494	3.016	0.979		6.331	3.170	1.062		6.070	3.430	0.508		4.291	5.209	1.907		
10.0	7.755	2.246	0.787		6.803	3.197	1.160		6.618	3.382	1.274		6.398	3.602	0.680		4.483	5.517	2.215		
10.5	8.091	2.409	0.950		7.104	3.396	1.359		6.892	3.608	1.500		6.686	3.815	0.893		4.633	5.868	2.566		
11.0	8.422	2.578	1.119		7.386	3.614	1.577		7.154	3.846	1.738		6.910	4.090	1.168		4.750	6.250	2.948		
11.5	8.725	2.775	1.316		7.656	3.844	1.807		7.379	4.121	2.013		7.078	4.423	1.501		4.849	6.652	3.350		
12.0	9.008	2.992	1.533		7.938	4.062	2.025		7.549	4.451	2.343		7.216	4.785	1.863		4.938	7.062	3.760		
12.5	9.243	3.257	1.798		8.207	4.293	2.256		7.857	4.843	2.735		7.338	5.162	2.240		5.023	7.478	4.176		
13.0	9.435	3.565	2.106		8.465	4.535	2.498		7.725	5.275	3.167		7.454	5.547	2.625		5.107	7.893	4.591		
13.5	9.569	3.931	2.472		8.660	4.840	2.803		7.756	5.744	3.636		7.564	5.936	3.014		5.194	8.306	5.004		
14.0	9.663	4.337	2.878		8.798	5.202	3.165		7.798	6.202	4.094		7.672	6.328	3.406		5.330	8.670	5.368		
14.5	9.698	4.802	3.343		8.820	5.580	3.543		7.834	6.666	4.558		7.778	6.722	3.800		5.381	9.119	5.817		
15.0	9.698	5.302	3.843		8.800	6.000	4.563		7.876	7.124	5.016		7.930	7.070	4.145		5.520	9.490	6.178		
15.5	9.663	5.837	4.378		8.840	7.060	5.023		7.917	7.583	5.475		7.989	7.511	4.589		5.600	9.900	6.598		
16.0	9.605	6.395	4.936		8.800	7.500	5.463		7.970	8.030	5.922		8.200	7.800	4.878		5.750	10.250	6.948		
16.5	9.543	6.957	5.498		8.860	7.940	5.903		8.011	8.489	6.381		8.197	8.303	5.381		5.820	10.680	7.378		
17.0	9.476	7.524	6.065		8.800	8.400	6.363		8.074	8.927	6.819		8.400	8.600	5.678		5.980	11.020	7.718		
17.5	9.428	8.072	6.613		8.650	8.850	6.813		8.136	9.365	7.257		8.261	9.240	6.318		6.080	11.420	8.118		
18.0	9.378	8.622	7.163		8.700	9.300	7.263		8.175	9.826	7.718		8.550	9.450	6.528		6.150	11.850	8.548		
18.5	9.367	9.133	7.674		8.800	9.700	7.663		8.186	10.314	8.206		8.261	10.240	7.318		6.200	12.300	8.998		
19.0	9.378	9.622	8.163		9.000	10.000	7.963		8.180	10.820	8.712		8.570	10.430	7.508		6.230	12.770	9.468		
19.5	9.378	10.122	8.663		9.100	10.400	8.363		8.180	11.320	9.212		8.261	11.240	8.318		6.200	13.300	9.998		
20.0	9.386	10.614	9.155		9.000	11.000	8.963		8.180	11.820	9.712		8.300	11.700	8.778		6.210	13.790	10.488		
21.0	9.020	11.980	10.521		8.000	13.000	10.963		7.500	13.500	11.392		8.160	12.840	9.918		6.130	14.870	11.568		
22.0	8.880	13.120	11.661		7.880	14.120	12.083		6.990	15.010	12.902		7.830	14.170	11.248		6.030	15.970	12.668		
23.0	8.720	14.280	12.821		7.810	15.190	13.153		6.710	16.290	14.182		7.540	15.460	12.538		5.950	17.050	13.748		
24.0	8.570	15.430	13.971		7.750	16.250	14.213		6.350	17.650	15.542		7.300	16.700	13.778		5.910	18.090	14.798		
25.0	8.440	16.560	15.101		7.730	17.270	15.233		5.980	19.020	16.912		7.100	17.900	14.978		5.960	19.040	15.738		
26.0	8.330	17.670	16.211		7.720	18.280	16.243		5.490	20.510	18.402		6.930	19.070	16.148		6.120	19.880	16.578		
27.0	8.180	18.820	17.361		7.700	19.300	17.263		4.950	22.050	19.942		6.830	20.170	17.248		6.330	20.670	17.368		
28.0	7.960	20.04	18.581		7.650	20.35	18.313		4.500	23.50	21.392										



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

High Power Test Graph 20MHz to 18GHz CW (-55°C)

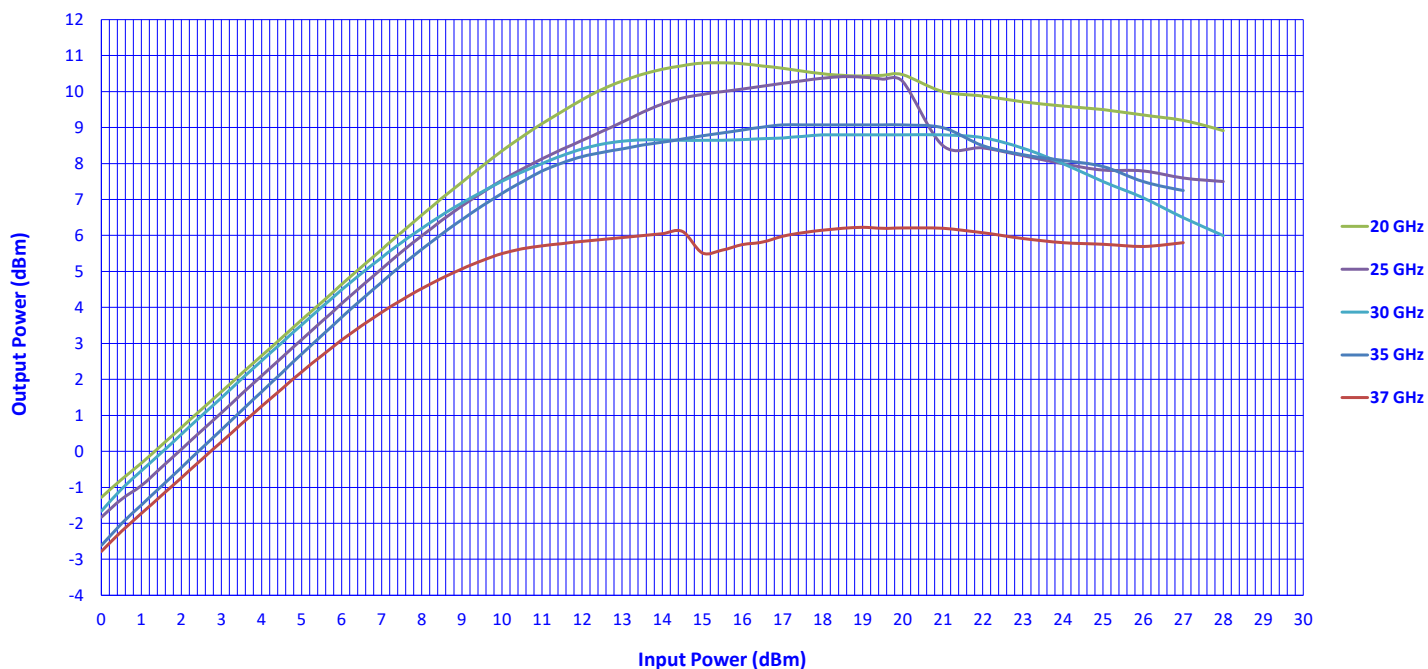


High Power Test Data 20MHz to 18GHz (CW)																	
Power Input (dBm)	20MHz			1 GHz			4 GHz			8 GHz			18 GHz			Power Input (Watts)	
	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)		
0.0	-0.02	0.02	0.000	-0.14	0.14	0.000	-0.41	0.41	0.000	-0.66	0.66	0.000	-1.37	1.37	0.000		
0.5	0.48	0.02	0.001	0.35	0.15	0.003	0.09	0.41	0.001	-0.16	0.66	0.002	-0.87	1.37	0.008		
1.0	0.98	0.02	0.002	0.86	0.14	0.000	0.59	0.41	0.000	0.34	0.66	0.002	-0.35	1.35	0.013		
1.5	1.48	0.02	0.005	1.36	0.14	0.001	1.09	0.41	0.006	0.82	0.68	0.021	0.14	1.36	0.011		
2.0	1.98	0.02	0.003	1.86	0.14	0.001	1.59	0.41	0.004	1.32	0.68	0.021	0.64	1.36	0.008		
2.5	2.49	0.01	0.004	2.35	0.15	0.003	2.09	0.41	0.003	1.82	0.68	0.023	1.14	1.36	0.005		
3.0	2.98	0.02	0.002	2.85	0.15	0.007	2.59	0.41	0.002	2.31	0.69	0.025	1.64	1.36	0.002		
3.5	3.48	0.02	0.002	3.35	0.15	0.007	3.09	0.41	0.001	2.81	0.69	0.029	2.13	1.37	0.002		
4.0	3.97	0.03	0.008	3.84	0.16	0.012	3.59	0.41	0.001	3.31	0.69	0.033	2.63	1.37	0.005		
4.5	4.47	0.03	0.009	4.35	0.15	0.011	4.08	0.42	0.003	3.80	0.70	0.038	3.13	1.37	0.008		
5.0	4.97	0.03	0.015	4.84	0.16	0.015	4.58	0.42	0.005	4.29	0.71	0.049	3.62	1.38	0.013		
5.5	5.47	0.03	0.017	5.34	0.16	0.018	5.08	0.42	0.010	4.77	0.73	0.066	4.12	1.38	0.018		
6.0	5.96	0.04	0.021	5.84	0.16	0.015	5.57	0.43	0.017	5.24	0.76	0.096	4.61	1.39	0.027		
6.5	6.46	0.04	0.027	6.34	0.16	0.019	6.06	0.44	0.030	5.70	0.80	0.139	5.10	1.40	0.038		
7.0	6.95	0.05	0.028	6.84	0.16	0.021	6.54	0.46	0.048	6.14	0.86	0.201	5.58	1.42	0.056		
7.5	7.45	0.05	0.031	7.31	0.19	0.042	7.01	0.49	0.075	6.56	0.94	0.278	6.05	1.45	0.080		
8.0	7.94	0.06	0.042	7.77	0.23	0.082	7.46	0.54	0.125	6.97	1.03	0.367	6.52	1.48	0.117		
8.5	8.43	0.07	0.055	8.21	0.29	0.143	7.89	0.61	0.199	7.37	1.13	0.467	6.98	1.52	0.155		
9.0	8.89	0.11	0.089	8.60	0.40	0.260	8.28	0.72	0.306	7.75	1.25	0.590	7.42	1.58	0.214		
9.5	9.33	0.17	0.156	8.97	0.53	0.385	8.65	0.85	0.435	8.13	1.37	0.710	7.85	1.65	0.282		
10.0	9.73	0.27	0.258	9.32	0.68	0.539	9.02	0.98	0.566	8.51	1.49	0.831	8.27	1.73	0.369		
10.5	10.10	0.40	0.383	9.65	0.85	0.703	9.37	1.13	0.717	8.90	1.60	0.937	8.66	1.84	0.469	P1dB	
11.0	10.46	0.54	0.521	9.98	1.02	0.877	9.71	1.29	0.875	9.31	1.69	1.029	9.06	1.94	0.575		
11.5	10.83	0.67	0.657	10.31	1.19	1.046	10.05	1.45	1.036	9.72	1.78	1.115	9.43	2.07	0.706		
12.0	11.18	0.82	0.799	10.65	1.35	1.207	10.39	1.61	1.201	10.14	1.86	1.197	9.79	2.21	0.846		
12.5	11.54	0.96	0.942	11.00	1.51	1.362	10.72	1.78	1.369	10.51	1.99	1.324	10.12	2.38	1.017		
13.0	11.88	1.12	1.103	11.33	1.67	1.529	11.06	1.94	1.528	10.77	2.23	1.565	10.39	2.61	1.243		
13.5	12.17	1.33	1.313	11.62	1.88	1.738	11.40	2.10	1.685	10.91	2.59	1.926	10.61	2.89	1.522		
14.0	12.39	1.61	1.595	11.84	2.16	2.013	11.75	2.25	1.841	10.96	3.04	2.375	10.78	3.22	1.850		
14.5	12.56	1.94	1.926	12.03	2.47	2.331	12.10	2.40	1.990	11.01	3.50	2.833	10.92	3.58	2.213		
15.0	12.70	2.30	2.287	12.18	2.82	2.675	12.45	2.55	2.134	11.10	3.90	3.241	11.02	3.98	2.614		
15.5	12.81	2.69	2.671	12.33	3.17	3.028	12.81	2.69	2.281	11.23	4.27	3.604	11.10	4.40	3.037		
16.0	12.92	3.08	3.064	12.47	3.53	3.386	13.17	2.84	2.422	11.37	4.63	3.970	11.15	4.85	3.485		
16.5	13.01	3.49	3.470	12.62	3.89	3.742	13.52	2.98	2.564	11.49	5.01	4.349	11.18	5.32	3.955		
17.0	13.11	3.90	3.878	12.76	4.24	4.093	13.88	3.12	2.706	11.63	5.38	4.713	11.20	5.80	4.435		
17.5	13.20	4.31	4.288	12.93	4.57	4.429	14.24	3.26	2.847	11.77	5.73	5.070	11.21	6.29	4.925		
18.0	13.28	4.72	4.707	13.11	4.90	4.752	14.59	3.41	2.997	11.93	6.08	5.413	11.22	6.78	5.415		
18.5	13.36	5.14	5.125	13.30	5.20	5.055	14.94	3.56	3.146	12.09	6.42	5.753	11.24	7.26	5.890		
19.0	13.44	5.56	5.545	13.52	5.48	5.341	15.27	3.73	3.313	12.25	6.75	6.090	11.28	7.73	6.359		
19.5	13.44	6.06	6.045	13.75	5.75	5.607	15.54	3.96	3.550	12.41	7.09	6.431	11.33	8.17	6.803		
20.0	13.44	6.56	6.545	14.00	6.00	5.859	15.73	4.27	3.856	12.57	7.43	6.764	11.39	8.61	7.241		
25.0	15.10	9.90	9.883	18.50	6.50	6.357	15.00	10.00	9.587	12.60	12.40	11.738	10.40	14.60	13.234		
30.0	15.40	14.60	14.583	19.70	10.30	10.157	15.80	14.20	13.787	13.00	17.00	16.338	10.10	19.90	18.534	1.00	
31.0	15.60	15.40	15.383	20.46	10.54	10.397	15.92	15.08	14.667	13.20	17.80	17.138	10.08	20.32	19.554	1.26	
32.0	15.95	16.05	16.033	20.60	11.40	11.257	16.00	16.00	15.587	13.30	18.70	18.038	10.02	21.98	20.614	1.58	
33.0	16.25	16.75	16.733	20.72	12.28	12.137	16.18	16.82	16.407	13.20	19.80	19.138	9.98	23.02	21.654	2.00	
34.0	16.57	17.43	17.413	20.78	13.22	13.077	16.22	17.78	17.367	13.30	20.70	20.038	9.70	24.30	22.934	2.51	
35.0	16.88	18.12	18.103	20.80	14.20	14.057	16.30	18.70	18.287	13.38	21.62	20.958	9.66	25.34	23.974	3.16	
36.0	17.10	18.90	18.883	20.82	15.18	15.037	16.28	19.72	19.307	13.20	22.80	22.138	9.60	26.40	25.034	3.98	
37.0	17.45	19.55	19.533	20.60	16.40	16.257	16.20	20.80	20.387	13.15	23.85	23.188	9.55	27.45	26.084	5.01	
38.0	17.71	20.29	20.273	20.58	17.42	17.277	16.10	21.90	21.487	13.09	24.91	24.248	9.50	28.50	27.134	6.31	
39.0	18.00	21.00	20.983	20.40	18.60	18.457	16.05	22.95	22.537	13.00	26.00	25.338	9.45	29.55	28.184	7.94	
40.0	18.26	21.74	21.723	20.55	19.45	19.307	16.00	24.00	23.587	12.80	27.20	26.538	9.38	30.62	29.254	10.00	
41.0	18.57	22.43	22.413	20.60	20.40	20.257	DO NOT EXCEED										12.59
42.0	18.90	23.10	23.083	20.55	21.45	21.307										15.85	
43.0	19.17	23.83	23.813	20.50	22.50	22.357										19.95	
44.0	19.20	24.80	24.783	20.45	23.55	23.407										25.12	
DO NOT EXCEED																	



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

High Power Test Graph 20GHz to 37GHz CW (-55°C)

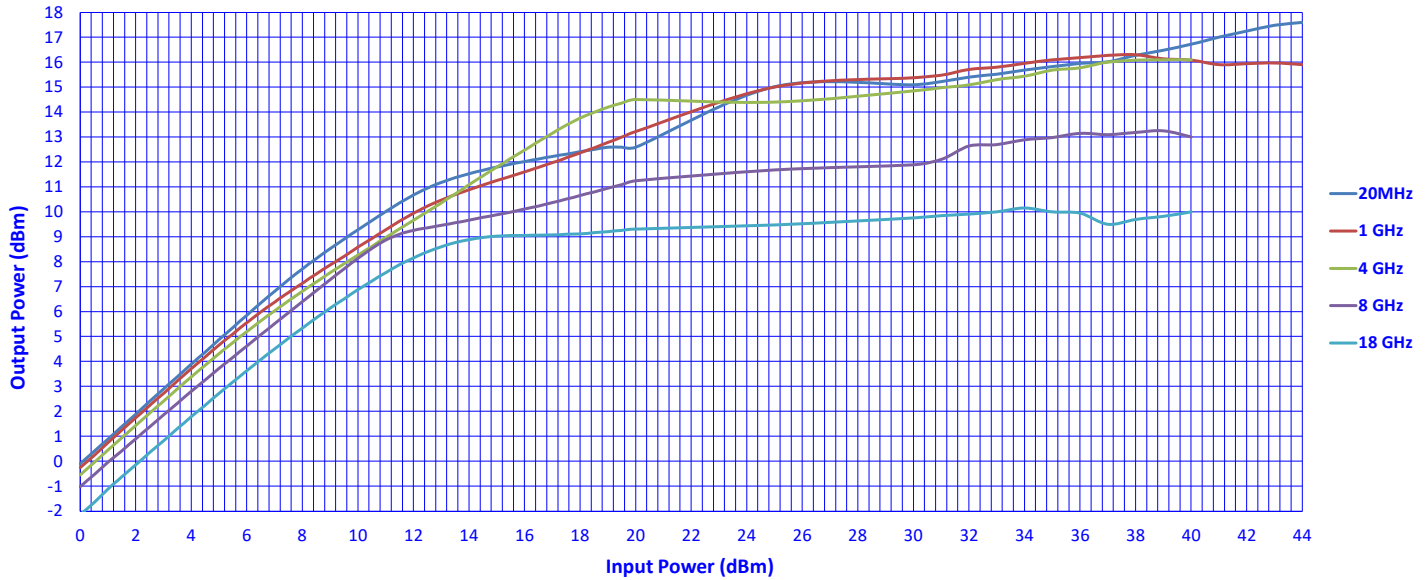


High Power Test Data 20 GHz to 37 GHz (CW)																
Power Input (dBm)	20 GHz			25 GHz			30 GHz			35 GHz			37 GHz			Power Input (Watts)
	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	
0.0	-1.27	1.27	0.000	-1.83	1.83	0.000	-1.66	1.66	0.000	-2.61	2.61	0.000	-2.78	2.78	0.000	P1 dB
0.5	-0.78	1.28	0.005	-1.32	1.82	0.003	-1.04	1.54	0.118	-2.01	2.51	0.106	-2.22	2.72	0.052	
1.0	-0.32	1.32	0.051	-0.95	1.95	0.121	-0.54	1.54	0.126	-1.48	2.48	0.129	-1.72	2.72	0.052	
1.5	0.17	1.33	0.054	-0.44	1.94	0.115	-0.03	1.53	0.134	-0.96	2.46	0.152	-1.22	2.72	0.052	
2.0	0.67	1.33	0.055	0.07	1.93	0.106	0.48	1.52	0.144	-0.44	2.44	0.176	-0.72	2.72	0.051	
2.5	1.17	1.33	0.057	0.58	1.92	0.096	0.99	1.51	0.155	0.09	2.41	0.201	-0.22	2.72	0.050	
3.0	1.67	1.33	0.060	1.08	1.92	0.087	1.50	1.50	0.166	0.61	2.39	0.226	0.27	2.73	0.048	
3.5	2.17	1.33	0.061	1.59	1.91	0.078	2.01	1.49	0.175	1.14	2.36	0.252	0.77	2.73	0.042	
4.0	2.66	1.34	0.065	2.10	1.90	0.071	2.52	1.48	0.182	1.66	2.34	0.278	1.26	2.74	0.031	
4.5	3.16	1.34	0.067	2.61	1.89	0.065	3.02	1.48	0.185	2.19	2.31	0.302	1.74	2.76	0.016	
5.0	3.66	1.34	0.072	3.11	1.89	0.060	3.52	1.48	0.184	2.71	2.29	0.323	2.21	2.79	0.012	
5.5	4.15	1.35	0.076	3.61	1.89	0.058	4.01	1.49	0.174	3.22	2.28	0.339	2.67	2.83	0.008	
6.0	4.65	1.36	0.083	4.11	1.89	0.060	4.49	1.51	0.155	3.73	2.27	0.346	3.10	2.90	0.128	
6.5	5.14	1.36	0.093	4.60	1.90	0.068	4.96	1.54	0.119	4.23	2.27	0.343	3.50	3.00	0.226	
7.0	5.62	1.38	0.107	5.08	1.92	0.087	5.40	1.60	0.061	4.71	2.29	0.327	3.87	3.13	0.353	
7.5	6.10	1.40	0.126	5.55	1.95	0.121	5.82	1.68	0.021	5.18	2.32	0.292	4.22	3.28	0.510	
8.0	6.58	1.42	0.151	6.00	2.00	0.174	6.21	1.79	0.130	5.62	2.38	0.237	4.53	3.47	0.694	
8.5	7.04	1.46	0.189	6.42	2.08	0.249	6.57	1.93	0.265	6.05	2.45	0.161	4.82	3.68	0.908	
9.0	7.49	1.51	0.242	6.82	2.18	0.349	6.91	2.09	0.428	6.45	2.55	0.062	5.08	3.92	1.148	
9.5	7.93	1.57	0.294	7.19	2.31	0.478	7.22	2.28	0.622	6.82	2.68	0.062	5.31	4.19	1.416	
10.0	8.35	1.65	0.374	7.54	2.46	0.631	7.51	2.49	0.827	7.17	2.83	0.212	5.50	4.50	1.726	
10.5	8.75	1.75	0.477	7.85	2.65	0.821	7.77	2.73	1.070	7.50	3.00	0.390	5.63	4.87	2.094	
11.0	9.11	1.89	0.617	8.14	2.86	1.036	8.00	3.00	1.333	7.79	3.21	0.594	5.72	5.28	2.509	
11.5	9.45	2.05	0.778	8.40	3.10	1.273	8.22	3.28	1.614	8.02	3.48	0.863	5.78	5.72	2.946	
12.0	9.78	2.22	0.949	8.65	3.35	1.526	8.41	3.59	1.931	8.20	3.80	1.189	5.84	6.16	3.389	
12.5	10.07	2.43	1.160	8.90	3.60	1.775	8.54	3.96	2.297	8.31	4.19	1.576	5.89	6.61	3.836	
13.0	10.30	2.70	1.429	9.16	3.85	2.017	8.62	4.38	2.716	8.41	4.59	1.972	5.94	7.06	4.283	
13.5	10.48	3.02	1.747	9.42	4.08	2.251	8.66	4.84	3.176	8.52	4.98	2.370	6.00	7.50	4.729	
14.0	10.62	3.38	2.107	9.66	4.34	2.514	8.66	5.34	3.676	8.60	5.40	2.789	6.05	7.95	5.171	
14.5	10.73	3.78	2.503	9.82	4.68	2.849	8.65	5.85	4.191	8.68	5.82	3.203	6.12	8.38	5.608	
15.0	10.80	4.21	2.933	9.93	5.07	3.246	8.65	6.35	4.691	8.77	6.23	3.613	6.12	8.80	6.075	
15.5	10.80	4.70	3.425	10.01	5.49	3.666	8.65	6.85	5.186	8.85	6.65	4.035	6.10	9.20	6.525	
16.0	10.78	5.23	3.953	10.07	5.93	4.100	8.67	7.33	5.671	8.93	7.07	4.454	6.10	9.68	7.000	
16.5	10.72	5.78	4.511	10.15	6.35	4.519	8.69	7.81	6.146	9.02	7.48	4.869	6.12	10.08	7.475	
17.0	10.65	6.35	5.079	10.23	6.77	4.943	8.72	8.28	6.622	9.07	7.93	5.312	6.12	10.52	7.905	
17.5	10.57	6.93	5.659	10.31	7.19	5.365	8.76	8.74	7.078	9.07	8.43	5.812	6.08	11.02	8.345	
18.0	10.50	7.50	6.232	10.38	7.63	5.797	8.80	9.20	7.539	9.07	8.93	6.312	6.15	11.45	8.745	
18.5	10.45	8.05	6.777	10.42	8.08	6.255	8.80	9.70	8.039	9.07	9.43	6.812	6.20	11.88	9.145	
19.0	10.44	8.56	7.289	10.41	8.60	6.767	8.80	10.20	8.539	9.07	9.93	7.312	6.23	12.30	9.545	
19.5	10.46	9.04	7.771	10.35	9.15	7.319	8.80	10.70	9.039	9.07	10.43	7.812	6.20	12.72	9.945	
20.0	10.47	9.53	8.259	10.29	9.72	7.887	8.80	11.20	9.539	9.07	10.93	8.312	6.21	13.14	10.345	
21.0	10.00	11.00	9.728	8.50	12.50	10.672	8.80	12.20	10.538	9.00	12.00	9.386	6.20	14.80	12.025	
22.0	9.88	12.12	10.848	8.44	13.56	11.732	8.72	13.28	11.618	8.50	13.50	10.886	6.08	15.92	13.145	
23.0	9.72	13.28	12.008	8.22	14.78	12.952	8.43	14.57	12.908	8.25	14.75	12.136	5.92	17.08	14.305	
24.0	9.60	14.40	13.128	8.00	16.00	14.172	8.00	16.00	14.338	8.09	15.91	13.296	5.80	18.20	15.425	
25.0	9.50	15.50	14.228	7.82	17.18	15.352	7.50	17.50	15.838	7.92	17.08	14.466	5.76	19.24	16.465	
26.0	9.35	16.65	15.378	7.80	18.20	16.372	7.05	18.95	17.288	7.50	18.50	15.886	5.70	20.30	17.525	
27.0	9.20	17.80	16.528	7.60	19.40	17.572	6.50	20.50	18.838	7.25	19.75	17.136	5.60	21.20	18.425	
28.0	8.92	19.08	17.888	7.50	20.50	18.672	6.00	22.00	20.338							



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

High Power Test Graph 20MHz to 18GHz CW (+85°C)

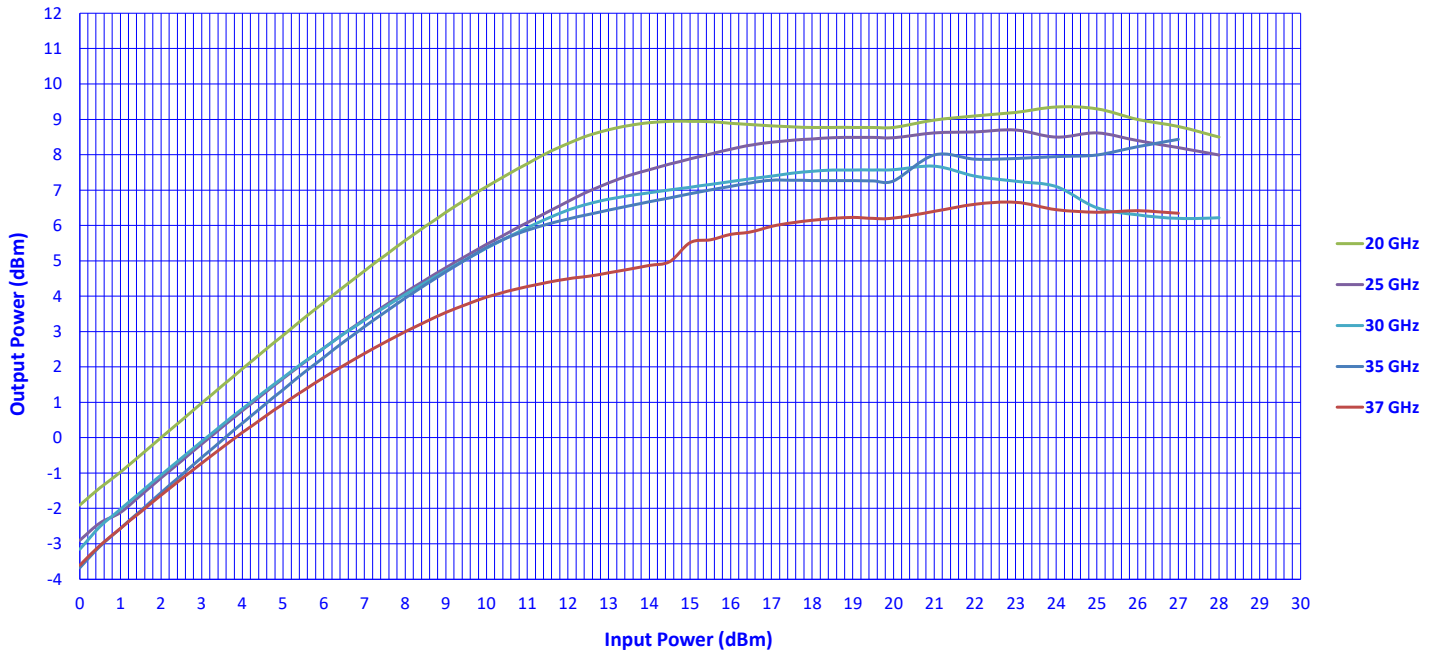


High Power Test Data 20MHz to 18GHz (CW)																
Power Input (dBm)	20MHz				1 GHz				4 GHz				8 GHz			
	Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)		Power Output (dBm)	Loss	Compression (dBm)	
0.0	-0.10	0.10	0.000		-0.25	0.25	0.000		-0.54	0.54	0.000		-1.01	1.01	0.000	
0.5	0.40	0.10	0.000		0.25	0.25	0.004		-0.04	0.54	0.004		-0.52	1.02	0.010	
1.0	0.90	0.10	0.003		0.75	0.25	0.000		0.45	0.55	0.006		-0.03	1.03	0.020	
1.5	1.40	0.10	0.006		1.25	0.25	0.001		0.95	0.55	0.012		0.42	1.08	0.063	
2.0	1.90	0.10	0.006		1.75	0.25	0.002		1.44	0.56	0.018		0.91	1.09	0.078	
2.5	2.41	0.09	0.005		2.24	0.26	0.007		1.93	0.57	0.026		1.39	1.11	0.098	
3.0	2.90	0.10	0.002		2.73	0.27	0.014		2.42	0.58	0.037		1.86	1.14	0.121	
3.5	3.40	0.10	0.002		3.23	0.27	0.021		2.91	0.59	0.052		2.34	1.16	0.150	
4.0	3.89	0.11	0.009		3.71	0.29	0.035		3.39	0.61	0.072		2.80	1.20	0.182	
4.5	4.39	0.11	0.013		4.20	0.30	0.052		3.86	0.64	0.100		3.27	1.23	0.218	
5.0	4.88	0.12	0.021		4.67	0.33	0.083		4.32	0.68	0.137		3.73	1.27	0.261	
5.5	5.37	0.13	0.029		5.12	0.38	0.128		4.77	0.73	0.188		4.18	1.32	0.307	
6.0	5.86	0.14	0.039		5.56	0.44	0.185		5.21	0.79	0.251		4.63	1.37	0.358	
6.5	6.35	0.15	0.057		5.98	0.52	0.265		5.63	0.87	0.329		5.07	1.43	0.411	
7.0	6.82	0.18	0.078		6.39	0.61	0.361		6.04	0.96	0.421		5.52	1.48	0.466	
7.5	7.29	0.21	0.118		6.78	0.72	0.474		6.43	1.07	0.526		5.96	1.54	0.523	
8.0	7.72	0.28	0.178		7.15	0.85	0.602		6.82	1.18	0.643		6.41	1.59	0.579	
8.5	8.13	0.37	0.273		7.52	0.98	0.734		7.20	1.30	0.762		6.84	1.66	0.644	
9.0	8.53	0.47	0.372		7.87	1.13	0.877		7.56	1.44	0.900		7.29	1.71	0.700	
9.5	8.91	0.59	0.491		8.22	1.28	1.025		7.92	1.58	1.036		7.72	1.78	0.762	
10.0	9.29	0.71	0.614		8.59	1.41	1.163		8.28	1.72	1.184		8.14	1.86	0.847	
10.5	9.65	0.85	0.752		8.94	1.56	1.310		8.62	1.88	1.338		8.54	1.96	0.949	
11.0	10.01	0.99	0.889		9.29	1.71	1.462		8.98	2.02	1.480		8.87	2.13	1.117	
11.5	10.36	1.14	1.044		9.63	1.87	1.620		9.32	2.18	1.641		9.11	2.39	1.376	
12.0	10.68	1.32	1.227		9.95	2.05	1.803		9.67	2.33	1.791		9.26	2.74	1.723	
12.5	10.96	1.54	1.446		10.23	2.27	2.021		10.01	2.49	1.949		9.37	3.13	2.120	
13.0	11.18	1.82	1.721		10.48	2.52	2.270		10.37	2.63	2.094		9.46	3.54	2.527	
13.5	11.37	2.13	2.031		10.69	2.81	2.557		10.73	2.78	2.235		9.56	3.94	2.924	
14.0	11.53	2.47	2.372		10.89	3.11	2.861		11.09	2.91	2.369		9.67	4.33	3.316	
14.5	11.67	2.83	2.731		11.08	3.42	3.170		11.45	3.05	2.508		9.78	4.72	3.707	
15.0	11.80	3.20	3.107		11.25	3.75	3.495		11.80	3.20	2.660		9.89	5.11	4.101	
15.5	11.92	3.59	3.488		11.43	4.07	3.817		12.14	3.36	2.816		9.99	5.51	4.494	
16.0	12.02	3.98	3.881		11.61	4.39	4.143		12.48	3.52	2.980		10.11	5.89	4.872	
16.5	12.12	4.38	4.280		11.79	4.71	4.463		12.82	3.68	3.139		10.24	6.26	5.247	
17.0	12.22	4.78	4.680		11.97	5.03	4.777		13.16	3.84	3.302		10.37	6.63	5.615	
17.5	12.32	5.18	5.087		12.16	5.34	5.085		13.48	4.02	3.482		10.51	6.99	5.975	
18.0	12.41	5.59	5.494		12.37	5.63	5.383		13.76	4.24	3.702		10.66	7.34	6.330	
18.5	12.50	6.00	5.901		12.57	5.93	5.679		14.00	4.51	3.965		10.80	7.70	6.684	
19.0	12.59	6.41	6.314		12.78	6.22	5.968		14.19	4.81	4.266		10.95	8.05	7.034	
19.5	12.69	6.91	6.814		13.00	6.50	6.250		14.36	5.14	4.596		11.10	8.40	7.389	
20.0	12.79	7.41	7.314		13.23	6.77	6.523		14.51	5.50	4.955		11.25	8.75	7.736	
25.0	15.02	9.98	9.883		15.00	10.00	9.749		14.40	10.60	10.060		11.68	13.32	12.306	
30.0	15.10	14.90	14.803		15.38	14.62	14.369		14.85	15.15	14.610		11.89	18.11	17.096	
31.0	15.22	15.78	15.683		15.48	15.52	15.269		14.98	16.02	15.480		12.10	18.90	17.886	
32.0	15.40	16.60	16.503		15.71	16.29	16.039		15.09	16.91	16.370		12.64	19.36	18.346	
33.0	15.52	17.48	17.383		15.80	17.20	16.949		15.30	17.70	17.160		12.70	20.30	19.286	
34.0	15.68	18.32	18.223		15.95	18.05	17.799		15.44	18.56	18.020		12.89	21.11	20.096	
35.0	15.82	19.18	19.083		16.10	18.90	18.649		15.68	19.32	18.780		12.98	22.02	21.006	
36.0	15.95	20.05	19.953		16.18	19.73	19.569		15.78	20.22	19.680		13.15	22.85	21.836	
37.0	16.02	20.98	20.883		16.27	20.73	20.479		16.00	21.00	20.460		13.10	23.90	22.886	
38.0	16.28	21.72	21.623		16.30	21.70	21.449		16.08	21.92	21.380		13.18	24.82	23.806	
39.0	16.48	22.52	22.423		16.14	22.86	22.609		16.10	22.90	22.360		13.25	25.75	24.736	
40.0	16.72	23.28	23.183		16.08	23.92	23.669		16.10	23.90	23.360		13.00	27.00	25.986	
41.0	17.00	24.00	23.903		15.90	25.10	24.849									
42.0	17.25	24.75	24.653		15.94	26.06	25.809									
43.0	17.48	25.52	25.423		15.97	27.03	26.779									
44.0	17.60	26.40	26.303		15.90	28.10	27.849									
DO NOT EXCEED																
																12.59
																15.85
																19.95
																25.12



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

High Power Test Graph 20GHz to 37GHz CW (+85°C)

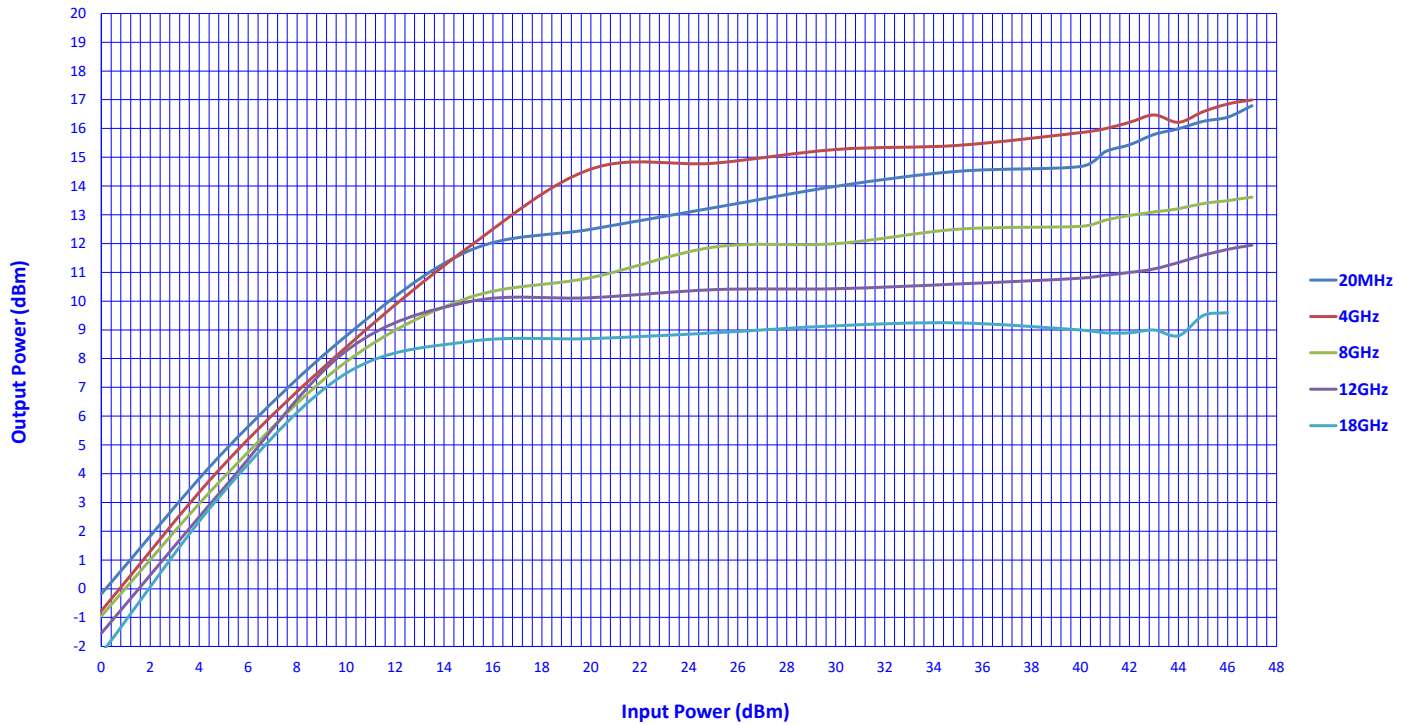


High Power Test Data 20 GHz to 37 GHz (CW)																
Power Input (dBm)	20 GHz			25 GHz			30 GHz			35 GHz			37 GHz			Power Input (Watts)
	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	Power Output (dBm)	Loss	Compression (dBm)	
0.0	-1.90	1.90	0.000	-2.90	2.90	0.000	-3.15	3.15	0.000	-3.67	3.67	0.000	-3.80	3.80	0.000	P1dB
0.5	-1.42	1.92	0.010	-2.40	2.90	0.007	-2.51	3.01	0.144	-3.07	3.57	0.103	-3.04	3.54	0.062	
1.0	-0.97	1.97	0.068	-2.11	3.11	0.217	-2.02	3.02	0.135	-2.56	3.56	0.111	-2.56	3.56	0.043	
1.5	-0.48	1.98	0.078	-1.62	3.12	0.227	-1.53	3.03	0.124	-2.05	3.55	0.117	-2.03	3.59	0.014	
2.0	0.01	1.99	0.088	-1.14	3.14	0.239	-1.05	3.05	0.105	-1.55	3.55	0.122	-1.62	3.62	0.019	
2.5	0.50	2.00	0.099	-0.65	3.15	0.255	-0.57	3.07	0.081	-1.05	3.55	0.121	-1.16	3.66	0.061	
3.0	0.98	2.02	0.112	-0.17	3.17	0.274	-0.10	3.10	0.054	-0.56	3.56	0.116	-0.71	3.71	0.112	
3.5	1.47	2.03	0.126	0.30	3.20	0.301	0.37	3.13	0.019	-0.07	3.57	0.106	-0.28	3.78	0.174	
4.0	1.95	2.05	0.144	0.77	3.23	0.333	0.82	3.18	0.022	0.42	3.58	0.089	0.15	3.85	0.247	
4.5	2.43	2.07	0.166	1.23	3.27	0.375	1.27	3.23	0.075	0.90	3.60	0.069	0.56	3.94	0.336	
5.0	2.90	2.10	0.193	1.68	3.32	0.425	1.71	3.29	0.137	1.37	3.63	0.038	0.96	4.04	0.438	
5.5	3.37	2.13	0.225	2.11	3.39	0.488	2.13	3.37	0.212	1.83	3.67	0.002	1.34	4.16	0.557	
6.0	3.83	2.17	0.268	2.54	3.46	0.564	2.54	3.46	0.303	2.28	3.72	0.048	1.71	4.29	0.692	
6.5	4.28	2.22	0.315	2.95	3.55	0.650	2.94	3.56	0.403	2.72	3.78	0.109	2.05	4.45	0.846	
7.0	4.72	2.28	0.371	3.35	3.65	0.750	3.33	3.67	0.518	3.14	3.86	0.186	2.38	4.62	1.014	
7.5	5.16	2.34	0.437	3.74	3.76	0.864	3.70	3.80	0.647	3.55	3.95	0.277	2.70	4.80	1.198	
8.0	5.58	2.42	0.517	4.11	3.89	0.991	4.06	3.94	0.791	3.95	4.05	0.381	3.00	5.00	1.400	
8.5	5.98	2.52	0.612	4.47	4.03	1.133	4.40	4.10	0.947	4.33	4.17	0.501	3.28	5.22	1.617	
9.0	6.37	2.63	0.723	4.82	4.18	1.288	4.73	4.27	1.118	4.70	4.30	0.634	3.54	5.46	1.856	
9.5	6.75	2.75	0.847	5.15	4.35	1.455	5.05	4.45	1.297	5.04	4.46	0.787	3.77	5.73	2.127	
10.0	7.10	2.90	0.992	5.47	4.53	1.634	5.36	4.64	1.487	5.38	4.62	0.948	3.97	6.03	2.423	
10.5	7.44	3.06	1.157	5.78	4.72	1.821	5.66	4.84	1.689	5.65	4.85	1.178	4.14	6.36	2.758	
11.0	7.75	3.25	1.341	6.09	4.91	2.016	5.94	5.06	1.904	5.87	5.13	1.459	4.27	6.73	3.123	
11.5	8.06	3.44	1.535	6.39	5.11	2.217	6.21	5.30	2.141	6.04	5.46	1.789	4.39	7.11	3.505	
12.0	8.33	3.67	1.770	6.68	5.32	2.420	6.44	5.56	2.411	6.18	5.82	2.144	4.50	7.50	3.899	
12.5	8.55	3.95	2.047	6.97	5.53	2.637	6.62	5.88	2.730	6.32	6.18	2.513	4.57	7.93	4.330	
13.0	8.71	4.29	2.384	7.21	5.79	2.897	6.75	6.25	3.100	6.44	6.56	2.890	4.67	8.33	4.731	
13.5	8.83	4.67	2.765	7.42	6.08	3.187	6.85	6.65	3.501	6.56	6.94	3.271	4.77	8.73	5.130	
14.0	8.91	5.09	3.188	7.58	6.42	3.521	6.93	7.07	3.917	6.67	7.33	3.657	4.87	9.13	5.524	
14.5	8.95	5.55	3.650	7.74	6.76	3.862	7.01	7.49	4.335	6.79	7.71	4.043	4.99	9.52	5.913	
15.0	8.95	6.05	4.146	7.88	7.12	4.219	7.08	7.92	4.763	6.90	8.10	4.432	5.52	9.94	6.298	
15.5	8.93	6.57	4.662	8.02	7.48	4.581	7.17	8.33	5.178	7.01	8.49	4.821	5.60	9.90	6.298	
16.0	8.89	7.11	5.201	8.16	7.84	4.941	7.24	8.76	5.602	7.11	8.89	5.218	5.75	10.25	6.648	
16.5	8.86	7.64	5.739	8.28	8.22	5.326	7.33	9.17	6.020	7.21	9.29	5.617	5.82	10.68	7.078	
17.0	8.82	8.18	6.278	8.36	8.64	5.748	7.40	9.60	6.447	7.28	9.72	6.044	5.98	11.02	7.418	
17.5	8.79	8.71	6.804	8.41	9.09	6.190	7.48	10.02	6.868	7.28	10.22	6.550	6.08	11.42	7.818	
18.0	8.77	9.23	7.322	8.45	9.55	6.652	7.54	10.46	7.310	7.28	10.72	7.053	6.15	11.85	8.248	
18.5	8.78	9.72	7.817	8.48	10.02	7.119	7.57	10.93	7.778	7.27	11.23	7.557	6.20	12.30	8.698	
19.0	8.78	10.22	8.317	8.49	10.51	7.609	7.57	11.43	8.271	7.27	11.73	8.060	6.23	12.77	9.168	
19.5	8.78	10.72	8.817	8.49	11.01	8.109	7.57	11.93	8.771	7.27	12.23	8.563	6.20	13.30	9.698	
20.0	8.78	11.22	9.317	8.48	11.52	8.619	7.58	12.42	9.265	7.26	12.74	9.066	6.21	13.79	10.188	
21.0	8.98	12.02	10.115	8.62	12.38	9.483	7.68	13.32	10.166	8.00	13.00	9.329	6.40	14.60	10.998	
22.0	9.10	12.90	10.995	8.65	13.35	10.453	7.40	14.60	11.446	7.88	14.12	10.449	6.60	15.40	11.798	
23.0	9.20	13.80	11.895	8.70	14.30	11.403	7.25	15.75	12.596	7.90	15.10	11.429	6.66	16.34	12.738	
24.0	9.35	14.65	12.745	8.80	15.50	12.603	7.10	16.90	13.746	7.95	16.05	12.379	6.45	17.55	13.948	
25.0	9.30	15.70	13.795	8.62	16.38	13.483	6.90	18.50	15.346	8.00	17.00	13.329	6.38	18.62	15.018	
26.0	9.00	17.00	15.095	8.40	17.60	14.703	6.30	19.70	16.546	8.23	17.77	14.099	6.42	19.58	15.978	
27.0	8.80	18.20	16.295	8.20	18.80	15.903	6.20	20.80	17.646	8.44	18.56	14.889	6.35	20.65	17.048	
28.0	8.50	19.50	17.595	8.00	20.00	17.103	6.22	21.78	18.626							



Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Peak Power Test Graph (1 μ s PW, 1% Duty Cycle, 10KHz PRF)

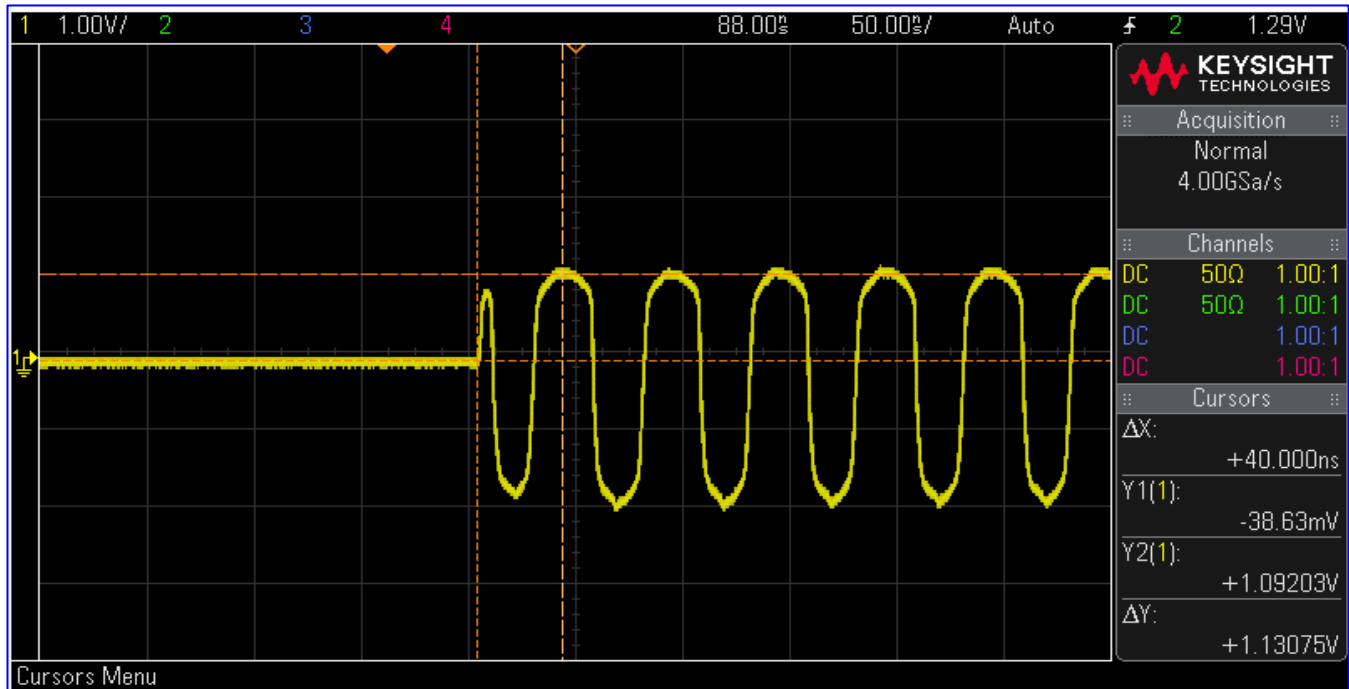


Peak Power Test Data (1µs PW, 1% Duty Cycle, 10 KHz PRF)															Power Input (Watts)
20MHz			4GHz			8GHz			12GHz			18GHz			
Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	Power Input (dBm)	Power Output (dBm)	Loss	
0.0	-0.18	0.18	0.0	-0.77	0.77	0.0	-0.95	0.95	0.0	-1.55	1.55	0.0	-2.25	2.25	
5.0	4.77	0.23	5.0	4.32	0.68	5.0	3.88	1.12	5.0	3.50	1.50	5.0	3.38	1.62	
10.0	8.80	1.20	10.0	8.41	1.59	10.0	7.90	2.10	10.0	8.28	1.72	10.0	7.50	2.50	
15.0	11.75	3.25	15.0	11.88	3.12	15.0	10.12	4.88	15.0	9.98	5.02	15.0	8.60	6.40	
20.0	12.50	7.50	20.0	14.60	5.40	20.0	10.82	9.18	20.0	10.12	9.88	20.0	8.70	11.30	
25.0	13.25	11.75	25.0	14.80	10.20	25.0	11.88	13.12	25.0	10.40	14.60	25.0	8.90	16.10	
30.0	14.00	16.00	30.0	15.28	14.72	30.0	12.00	18.00	30.0	10.44	19.56	30.0	9.15	20.85	1
35.0	14.52	20.48	35.0	15.42	19.58	35.0	12.50	22.50	35.0	10.60	24.40	35.0	9.25	25.75	3
40.0	14.69	25.31	40.0	15.86	24.14	40.0	12.60	27.40	40.0	10.80	29.20	40.0	9.00	31.00	10
41.0	15.20	25.80	41.0	16.00	25.00	41.0	12.82	28.18	41.0	10.90	30.10	41.0	8.90	32.10	13
42.0	15.44	26.56	42.0	16.22	25.78	42.0	12.98	29.02	42.0	11.00	31.00	42.0	8.90	33.10	16
43.0	15.80	27.20	43.0	16.48	26.52	43.0	13.10	29.90	43.0	11.12	31.88	43.0	9.00	34.00	20
44.0	16.00	28.00	44.0	16.22	27.78	44.0	13.22	30.78	44.0	11.35	32.65	44.0	8.80	35.20	25
45.0	16.25	28.75	45.0	16.59	28.41	45.0	13.40	31.60	45.0	11.60	33.40	45.0	9.50	35.50	32
46.0	16.40	29.60	46.0	16.86	29.14	46.0	13.50	32.50	46.0	11.80	34.20	46.0	9.60	36.40	40
47.0	16.80	30.20	47.0	17.00	30.00	47.0	13.62	33.38	47.0	11.95	35.05	DO NOT EXCEED			50
DO NOT EXCEED															

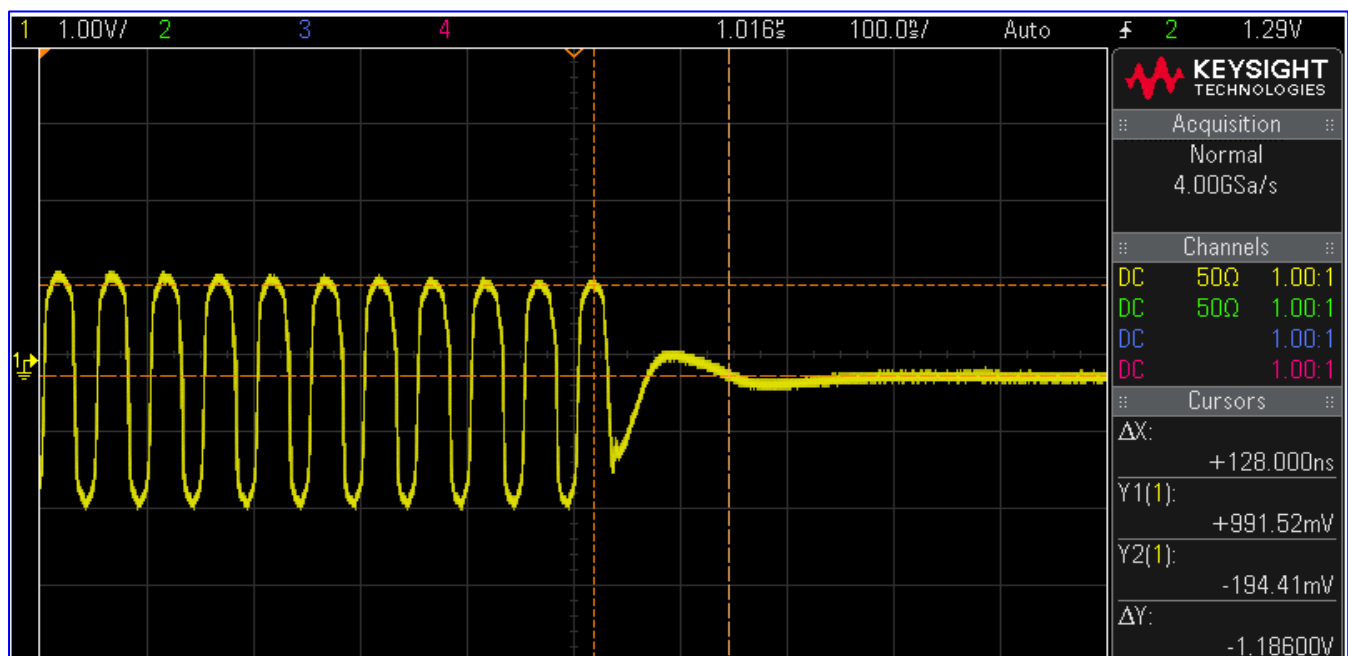


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Rise Time +30dBm (1 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
50ns Per Div. **Measured Value (40.0ns)**



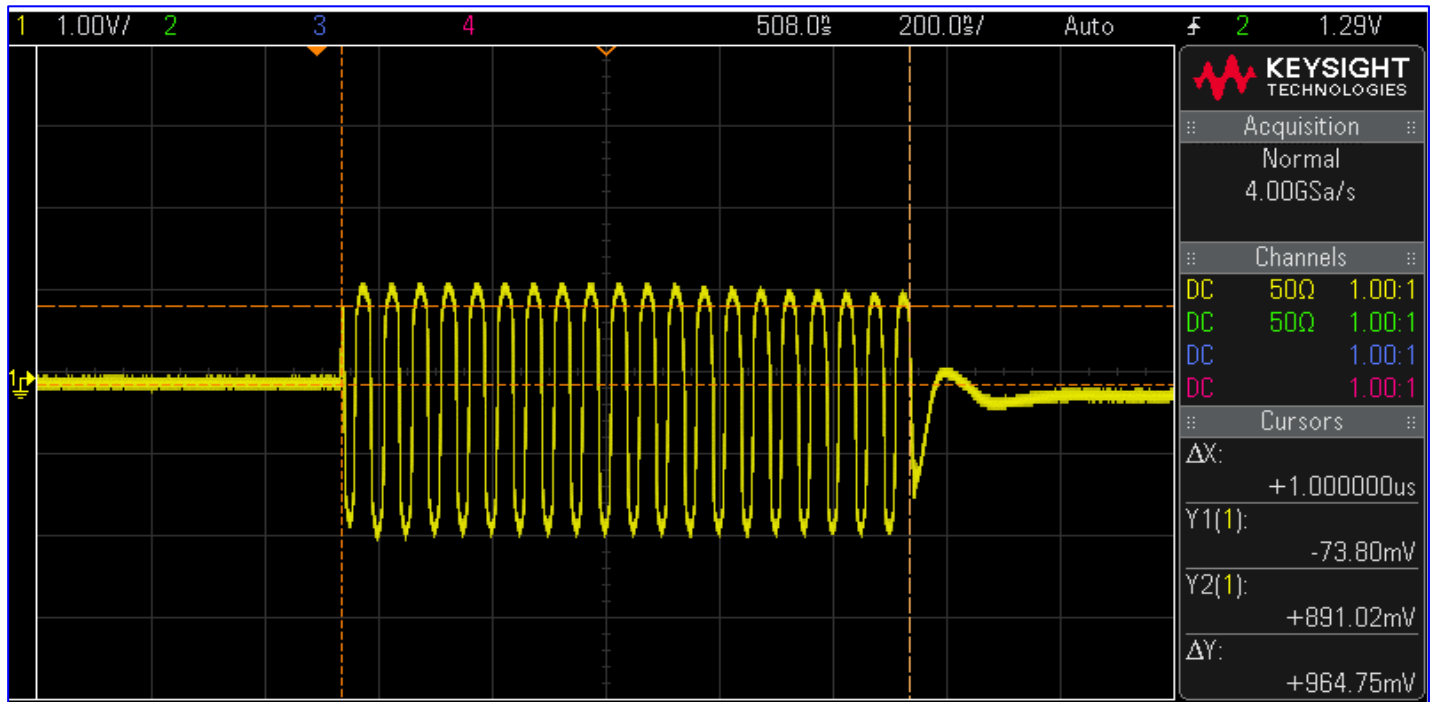
Recovery Time +30dBm (1 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
100ns Per Div. - **Measured Value (128.0ns)**





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

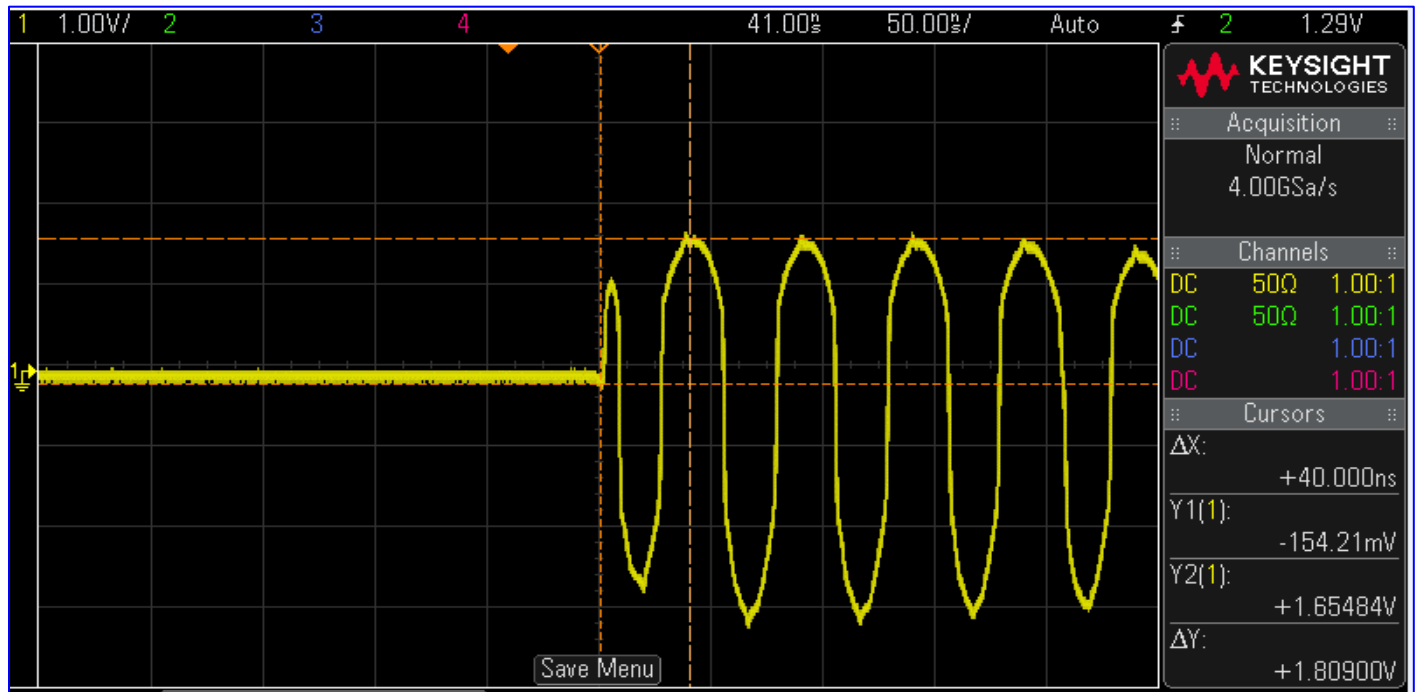
Full Pulse Peak Power +30dBm (1 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.



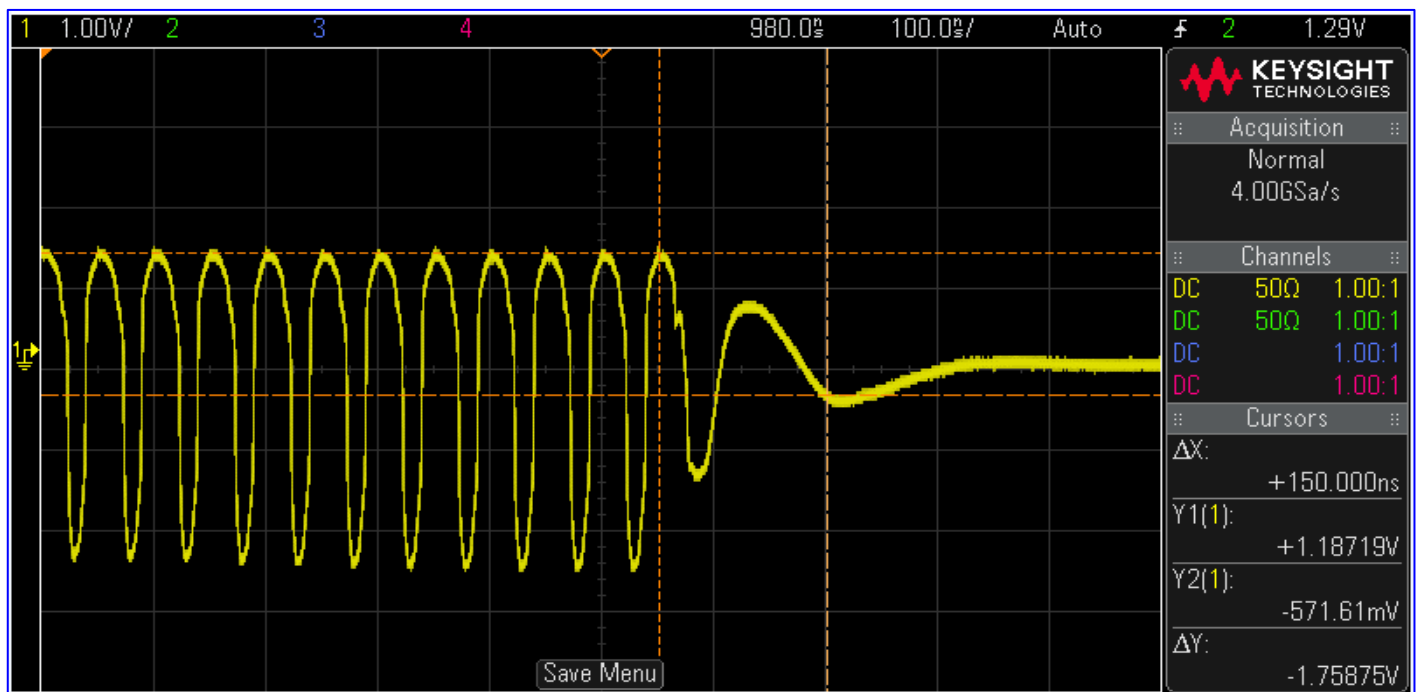


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Rise Time +47dBm (50 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
50ns Per Div. **Measured Value (40.0ns)**



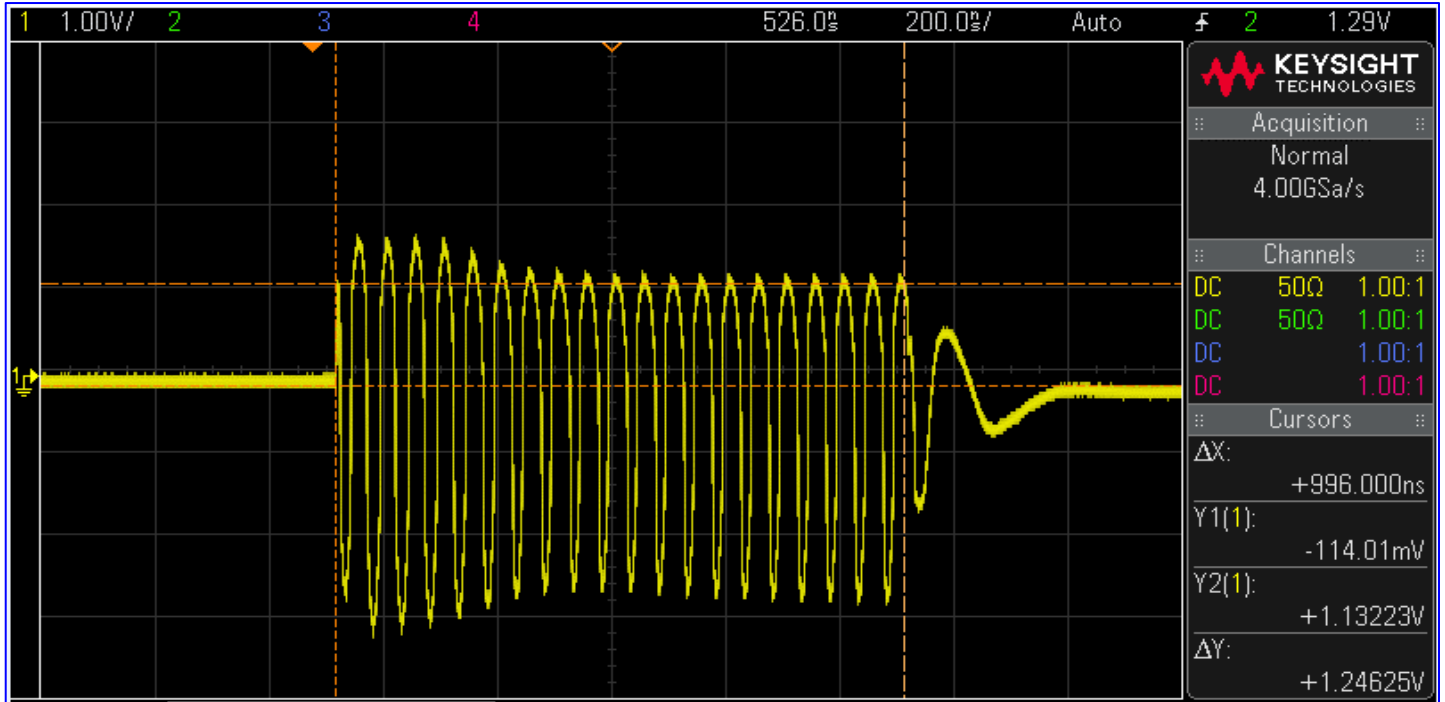
Recovery Time +47dBm (50 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
100ns Per Div. - **Measured Value (150.0ns)**





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

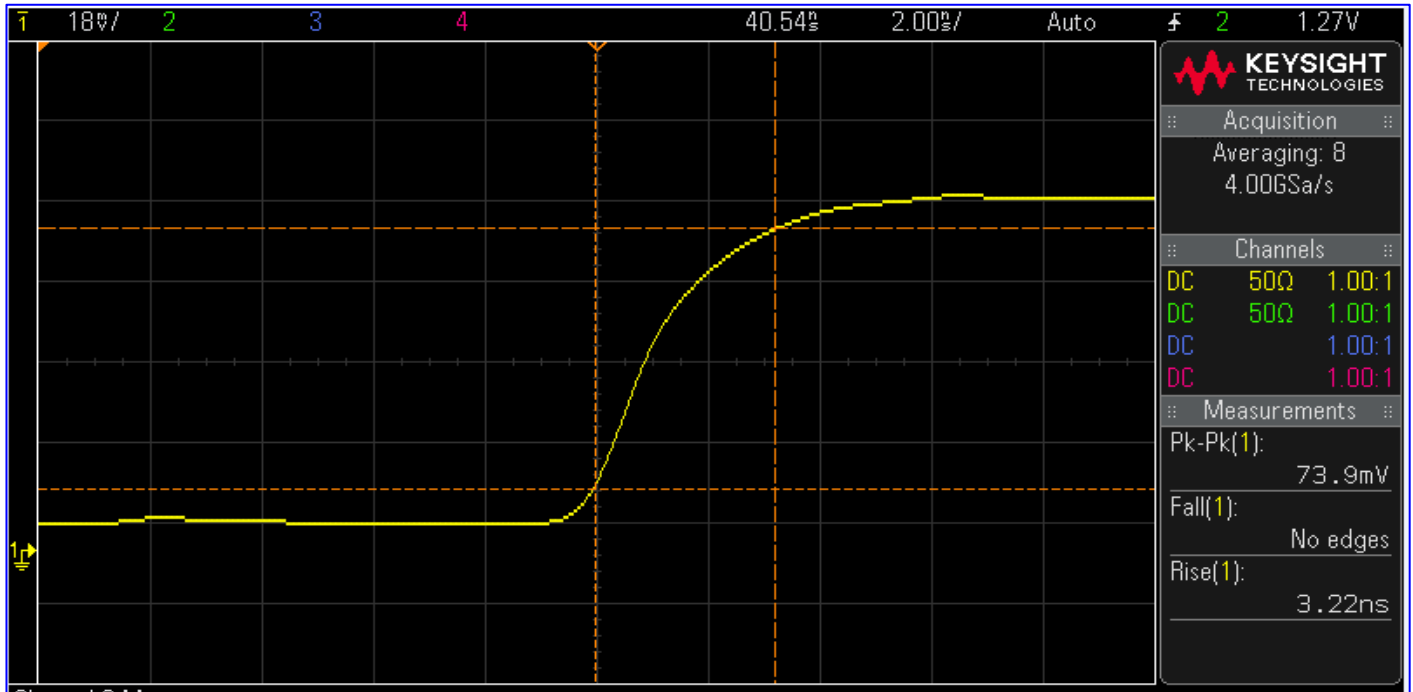
Full Pulse Peak Power +47dBm (50 Watt) @ 20MHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.



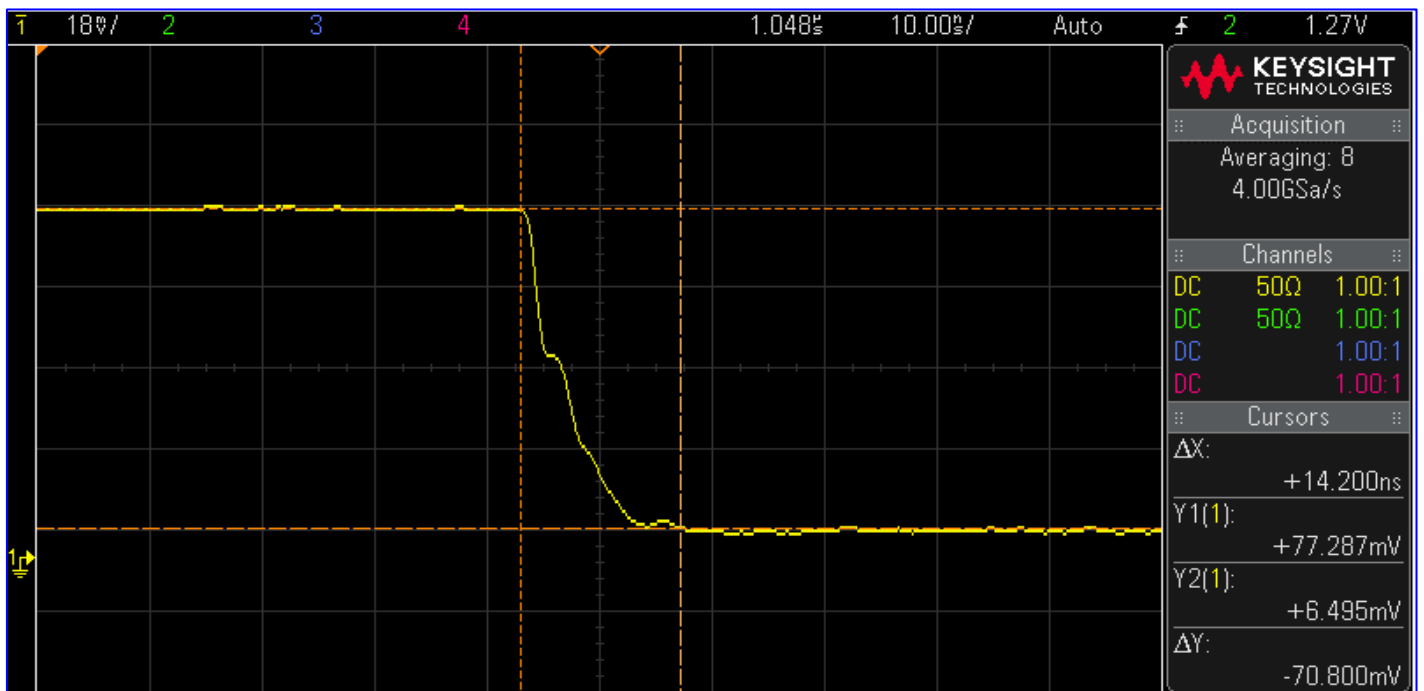


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Rise Time +30dBm (1 Watt) @ 8GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (3.22ns)**



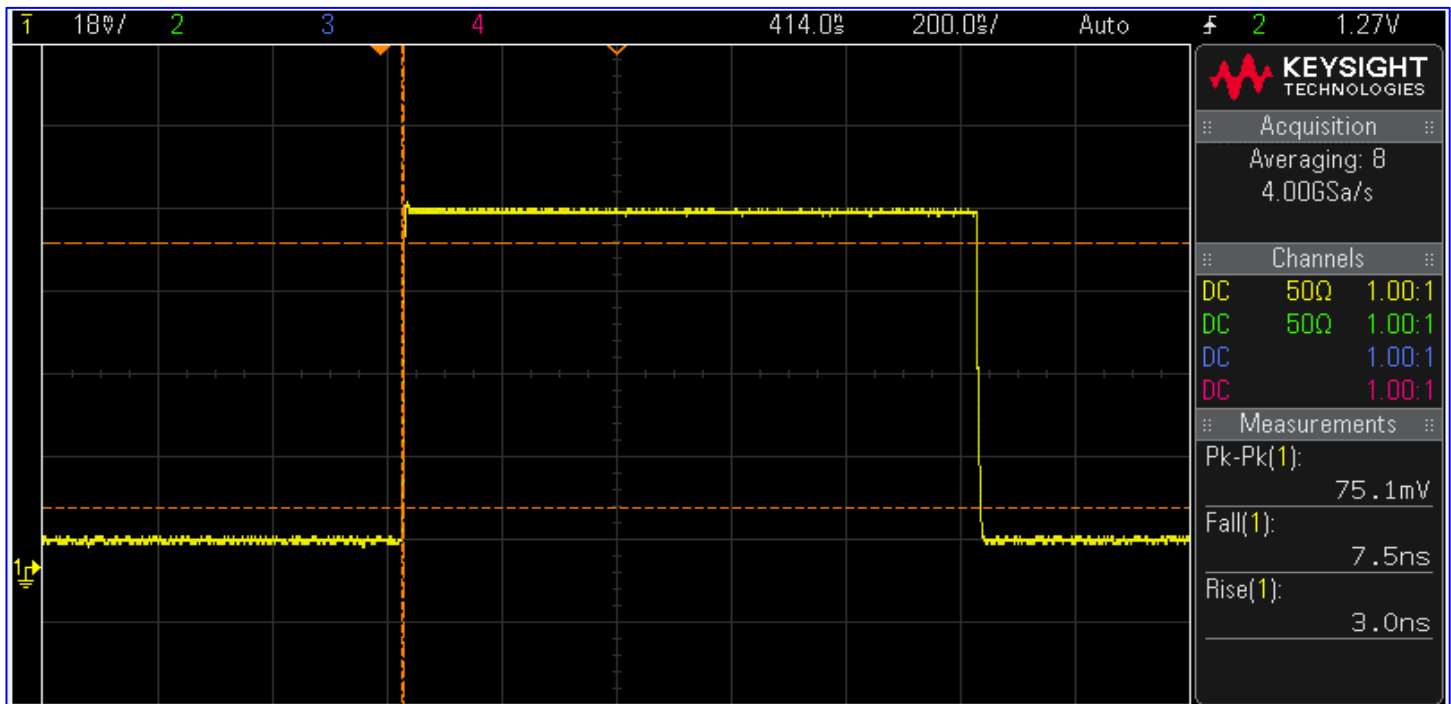
Recovery Time +30dBm (1 Watt) @ 8GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
10ns Per Div. - **Measured Value (14.20ns)**





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

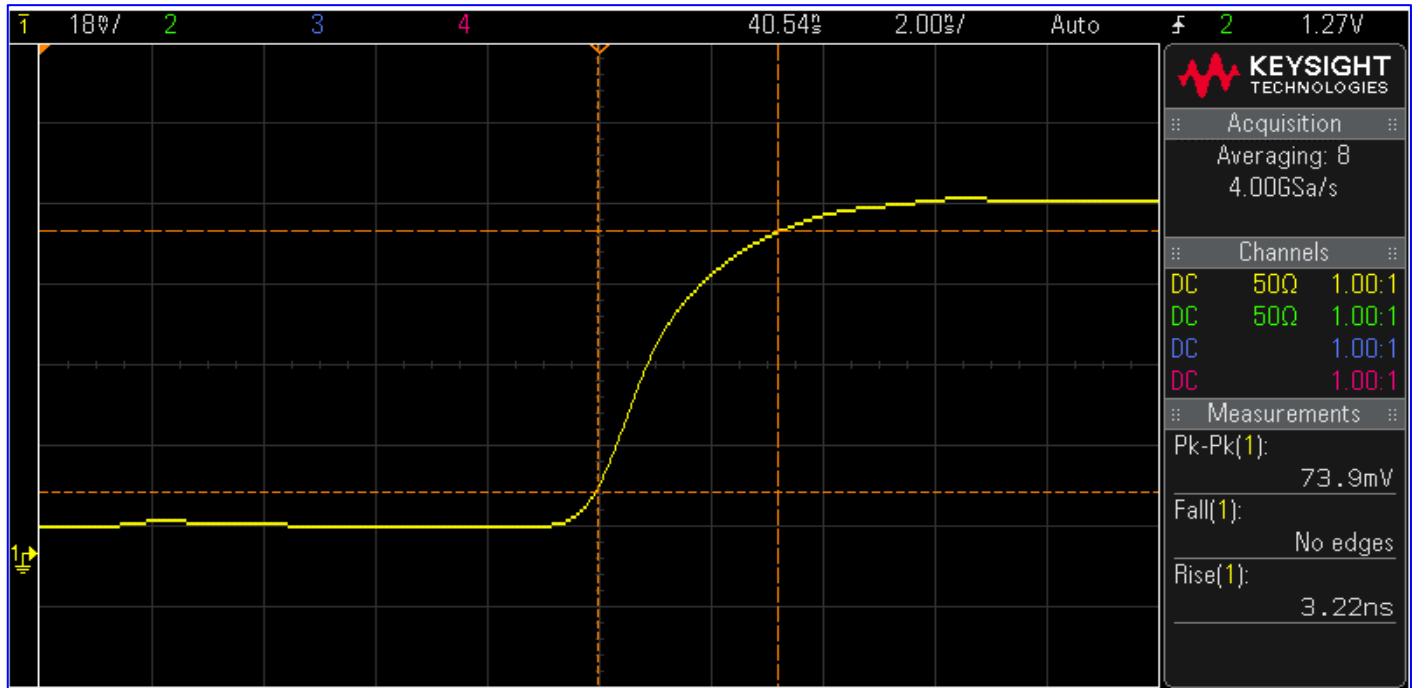
Full Pulse Peak Power +30dBm (1 Watt) @ 8GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Rise Time +47dBm (50 Watts) @ 8GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (3.22ns)**



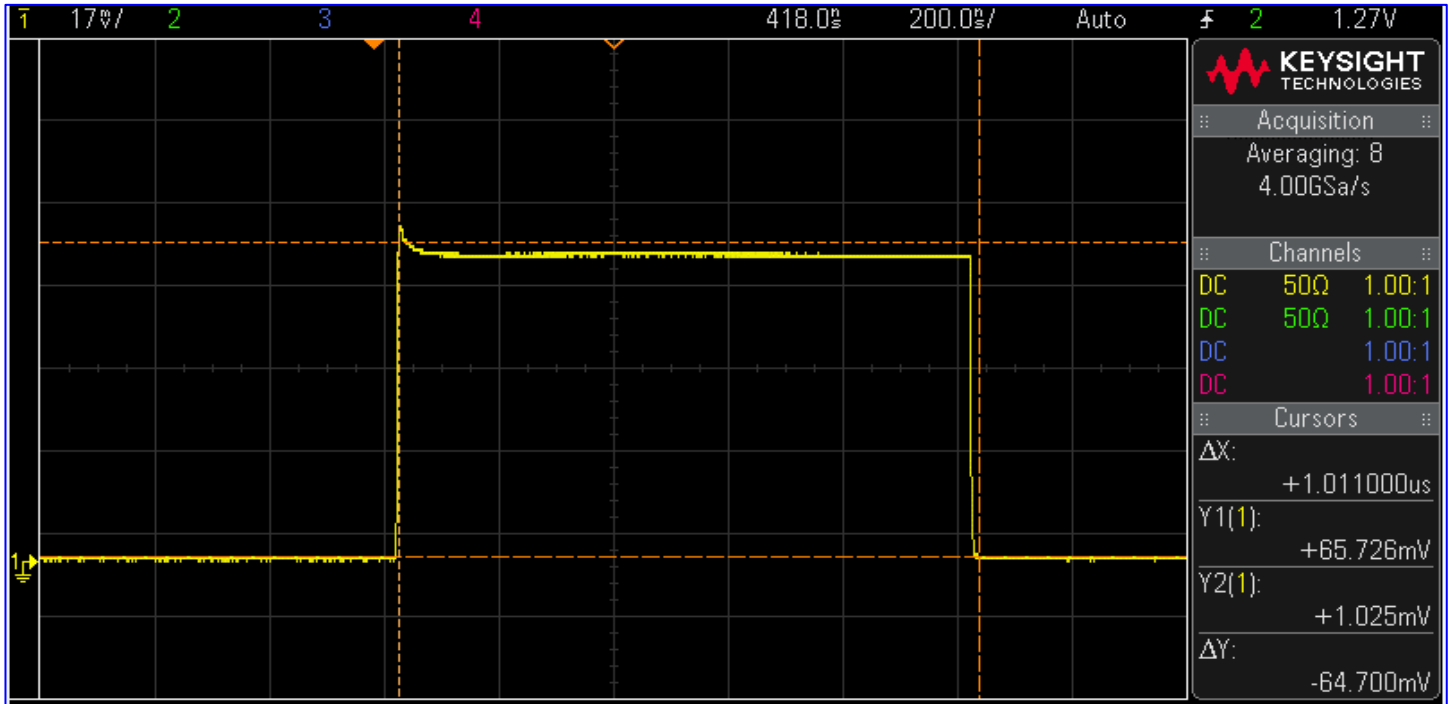
Recovery Time +47dBm (50 Watt) @ 8GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
10ns Per Div. - **Measured Value (14.20ns)**





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

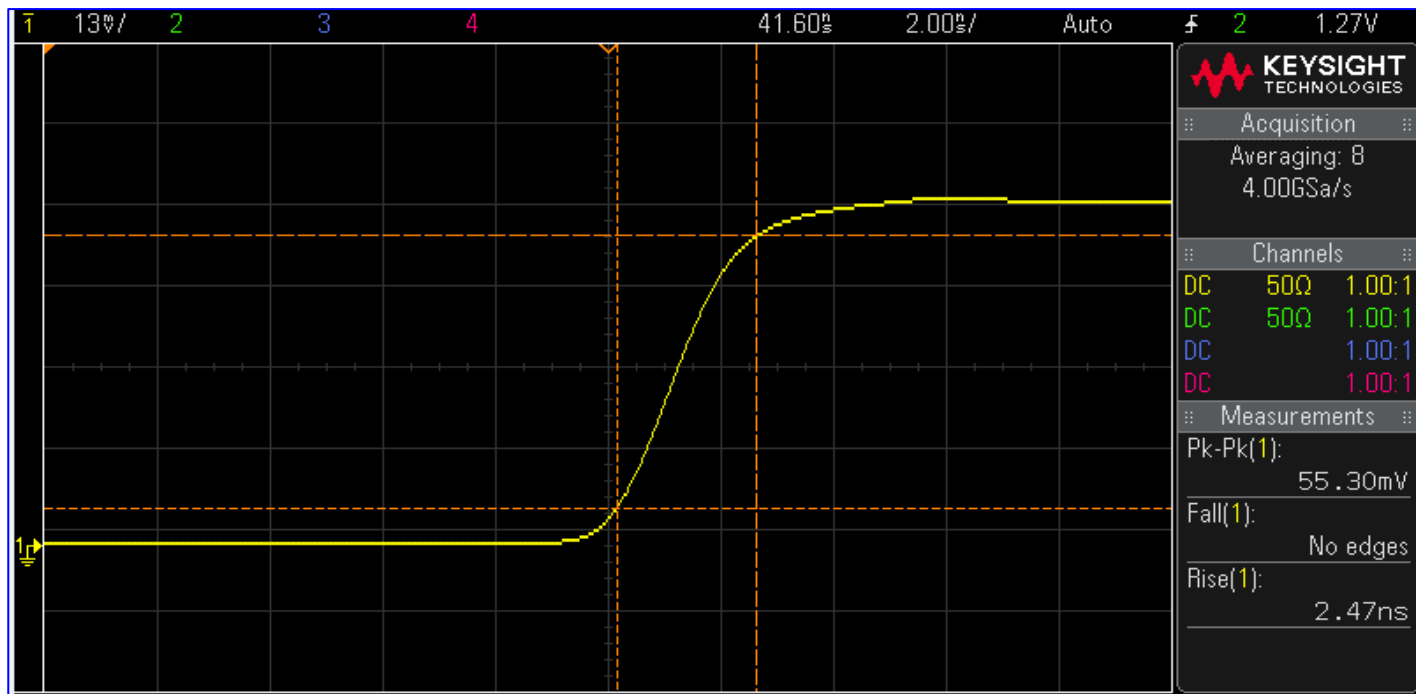
Full Pulse Peak Power +47dBm (50 Watt) @ 8GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.



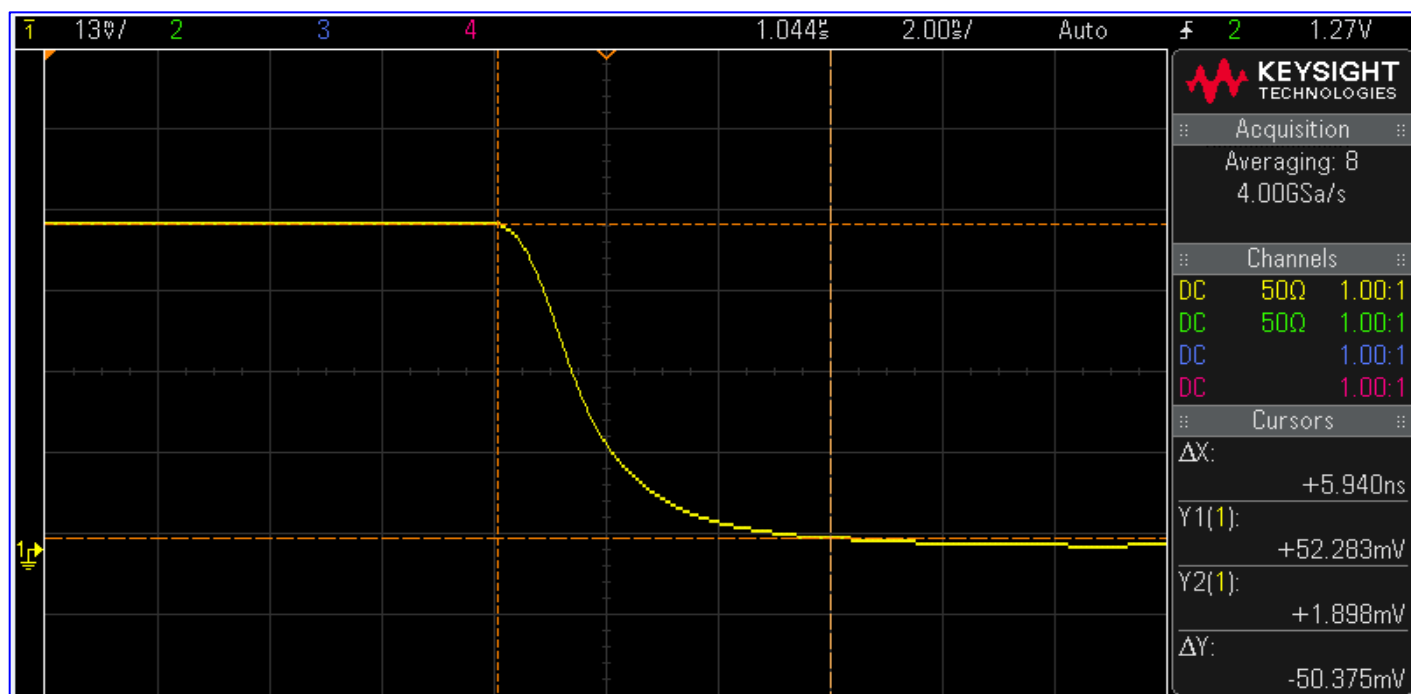


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Rise Time +30dBm (1 Watt) @ 18GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (2.47ns)**



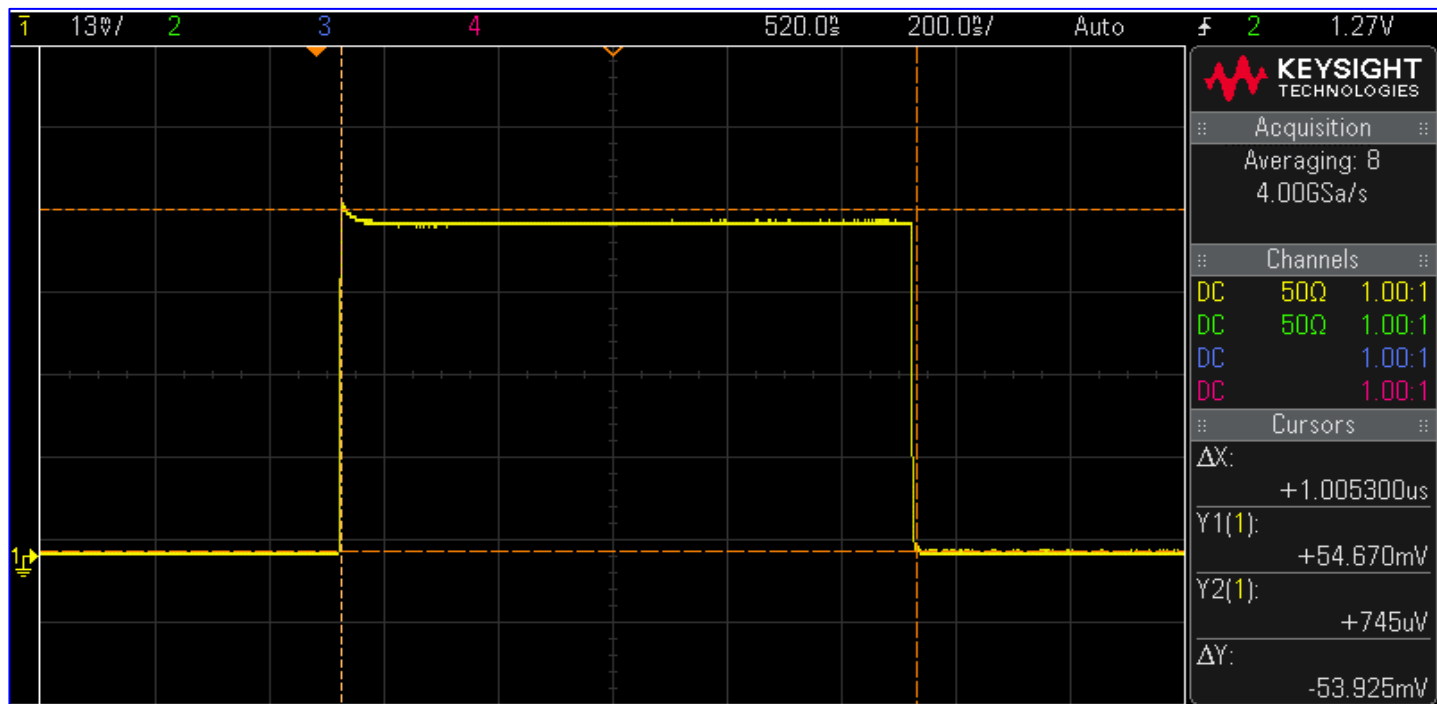
Recovery Time +30dBm (1 Watt) @ 18GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. - **(Measured Value (5.90ns))**





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

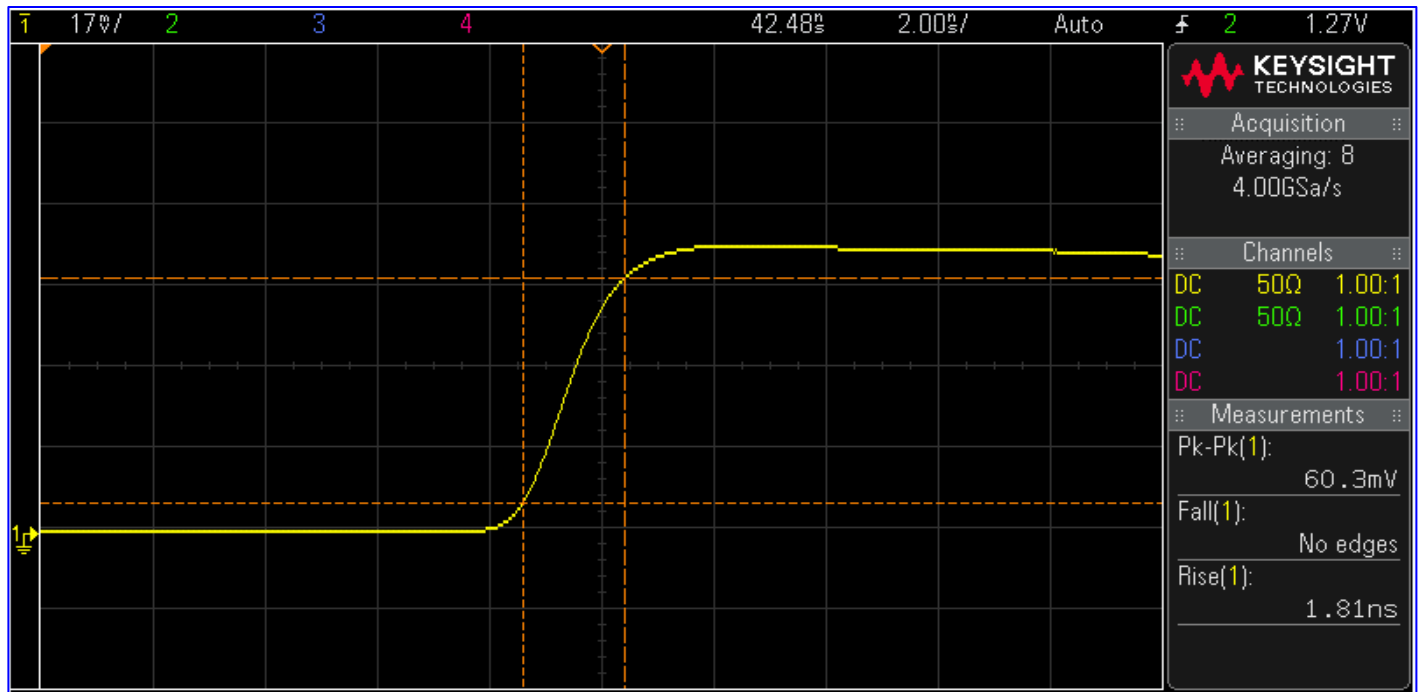
Full Pulse Peak Power +30dBm (1 Watt) @ 18GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.



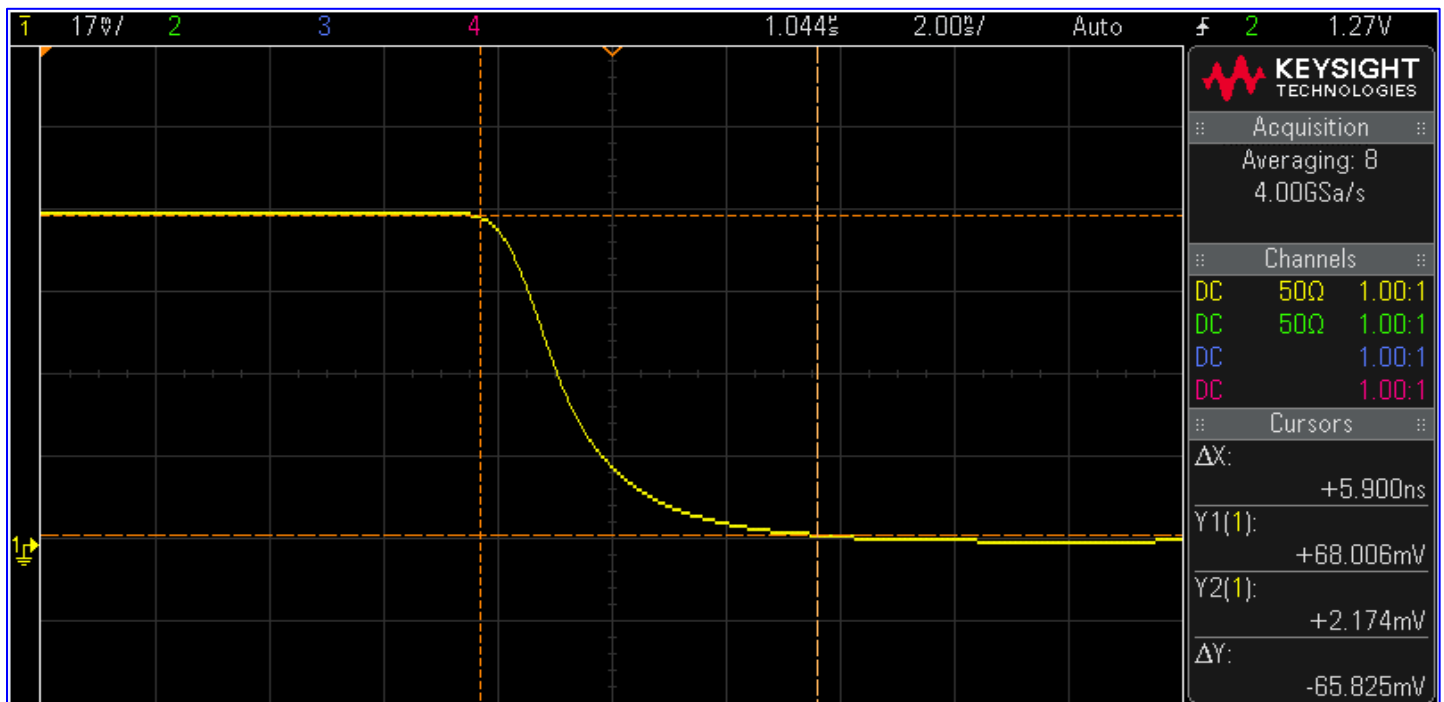


Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Rise Time +46dBm (40 Watts) @ 18GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. **Measured Value (1.81ns)**



Recovery Time +46dBm (40 Watt) @ 18GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
2ns Per Div. - **(Measured Value (5.90ns))**





Typical Characteristics ON LM-10M37G-15DBM-10W-AGAL

Full Pulse Peak Power +46dBm (40 Watts) @ 18GHz
Pulse (Pw 1 μ s, Duty Cycle 1%, Pulse Rate 10KHz)
200ns Per Div.

