SUMMARY TEST DATA
ON
PLA-14D65G15G35G-20DB-SFF-250W

Customer:
SO No:
Model No: PLA-14D65G15G35G-20DB-SFF-250W
Serial No: PL34705/2145

Tested By: Test Lab
Temperature: +25°C
Date: 11/10/2021
Drawing No: 27630283 **Rev:** B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS			QA QC
			-55°C	+25°C	+85°C	
1	Frequency Range:	14.65 TO 15.35 GHz	14.65 TO 15.35 GHz	14.65 TO 15.35 GHz	14.65 TO 15.35 GHz	PMI QA1
2	Insertion Loss:	3.59 dB Max1	3.2 dB See Graph	3.1 dB See Graph	3.1 dB See Graph	
3	Peak Power Handling	Low Temp (-55 °C) 100 W Max² Room Temp (+25 °C) 125 W Max² High Temp (+85 °C) 100 W Max²	Pass See Typical Characteristics	Pass See Typical Characteristics	Pass See Typical Characteristics	
4	Pulse Width	40 µs Typ	Pass	Pass	Pass	
5	Average Power	Low Temp (-55 °C) 10 W Max² Room Temp (+25 °C) 12.5 W Max² High Temp (+85 °C) 10 W Max²	Pass See Typical Characteristics	Pass See Typical Characteristics	Pass See Typical Characteristics	
6	Attenuation:	Logic TTL "0" - 0 dB Attenuation Logic TTL "1" - 20dB Attenuation	Pass	Pass	Pass	
7	Attenuation Flatness:	± 1 dB Max	±0.3 dB See Graph	±0.2 dB See Graph	±0.2 dB See Graph	
8	Attenuation Accuracy:	± 1 dB Max	±0.3 dB See Graph	±0.2 dB See Graph	±0.2 dB See Graph	
9	P1dB Limiting Threshold:	+5 dBm Min	Pass See Typical Characteristics	Pass See Typical Characteristics	Pass See Typical Characteristics	
10	Flat Leakage	(-55°C) +20 dBm Max @ 0 dB Attenuation And 100 W Max (+25°C) +20 dBm Max @ 0 dB Attenuation And 125 W Max (+85°C) +20 dBm Max @ 0 dB Attenuation And 100 W Max	Pass See Typical Characteristics	Pass See Typical Characteristics	Pass See Typical Characteristics	
11	Switching Speed	90 ns, 50% TTL To 10% RF Max 90 ns, 50% TTL To 90% RF Max	Pass See Typical Characteristics	Pass See Typical Characteristics	Pass See Typical Characteristics	
12	Phase Matching	15° Max (Unit To Unit)	6.2° See Graph	4.5° See Gaph	5.1° See Graph	
13	DC Consumption	+5 V @ 150 mA Max -15 V @ 150 mA Max	+5 V @ 28 mA -15 V @ 26mA	+5 V @ 29 mA -15 V @ 25 mA	+5 V @ 29 mA -15 V @ 23 mA	
14	VSWR	2.0:1 Max @ -10 dBm Input	1.8:1	1.7:1	1.7:1	PMI QA1

QA/QC Approval: PMI QA1 Date: 11/12/21

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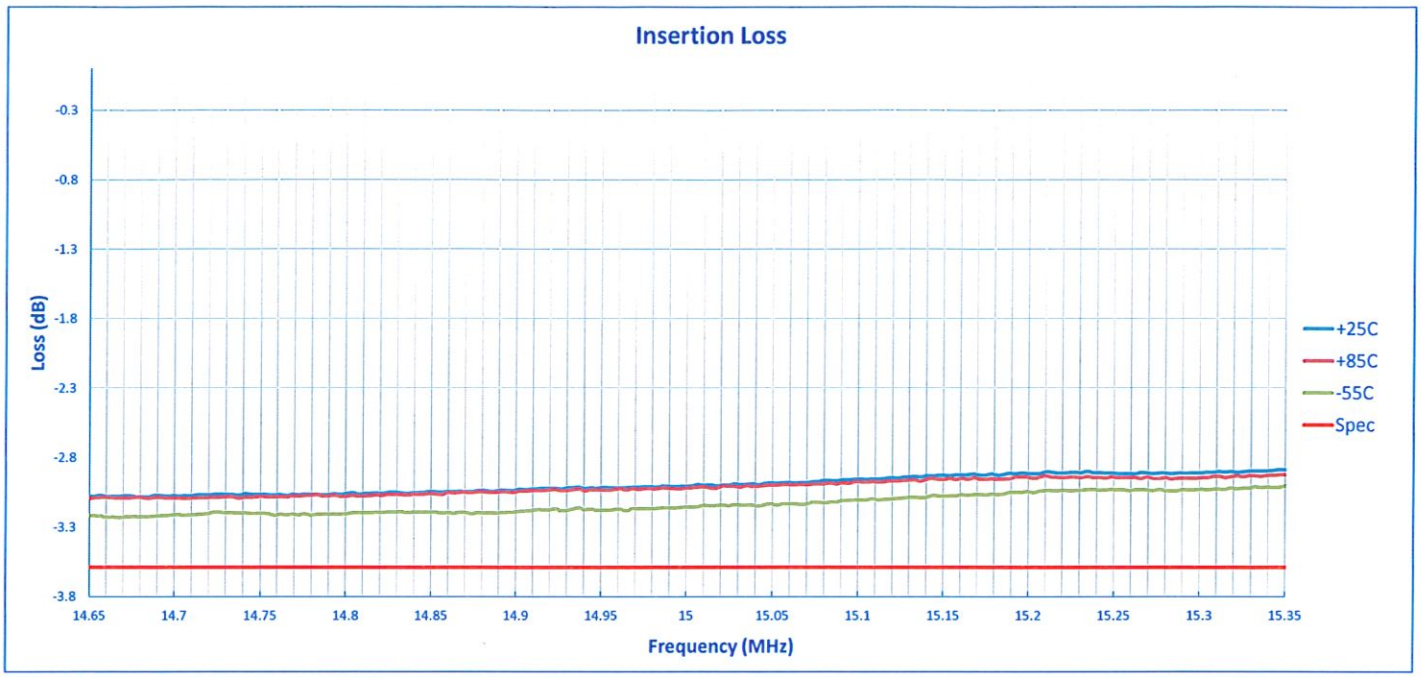

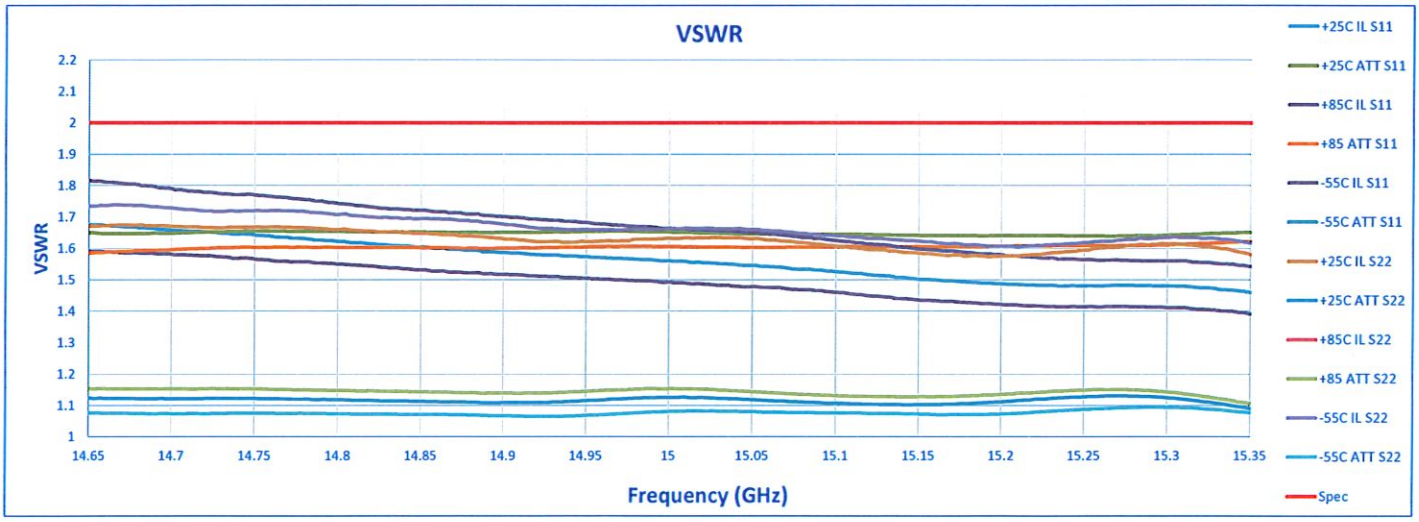

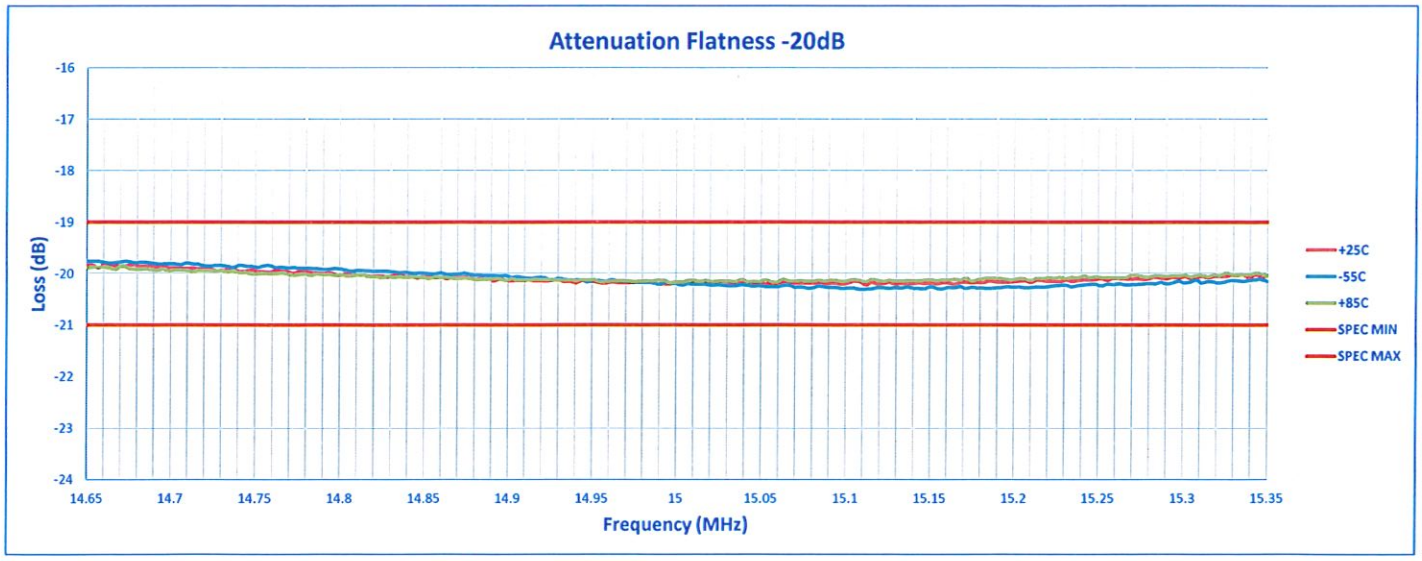

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1/4/1900

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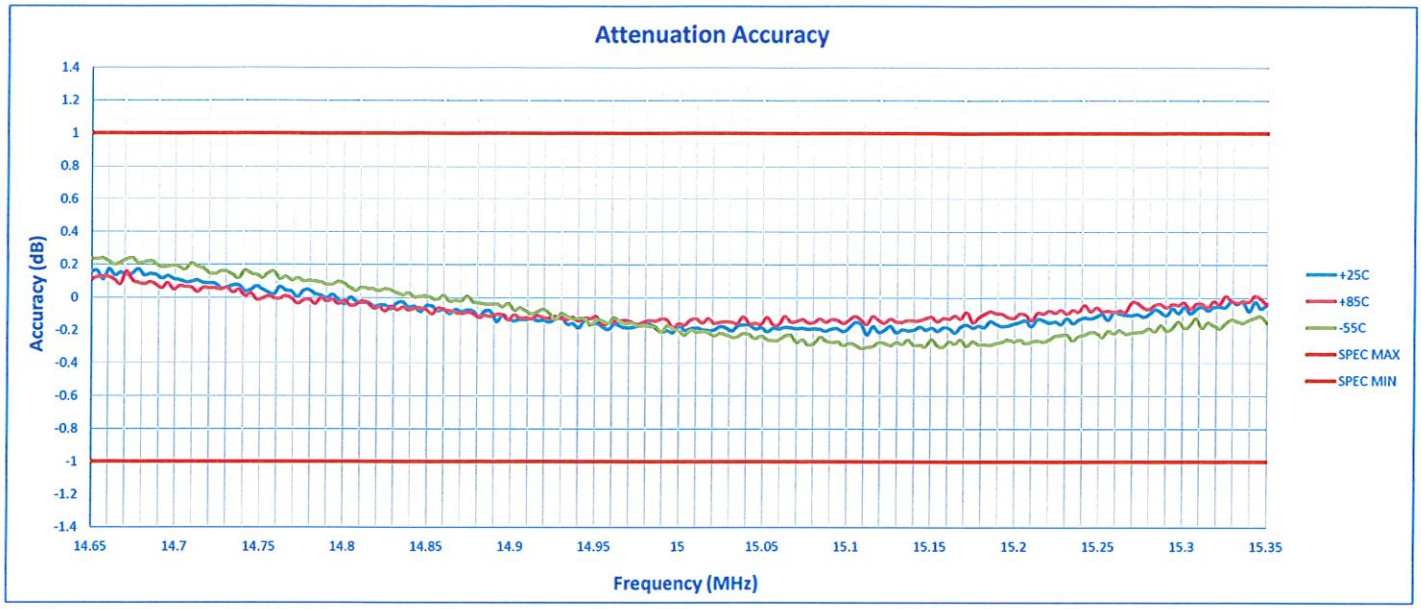

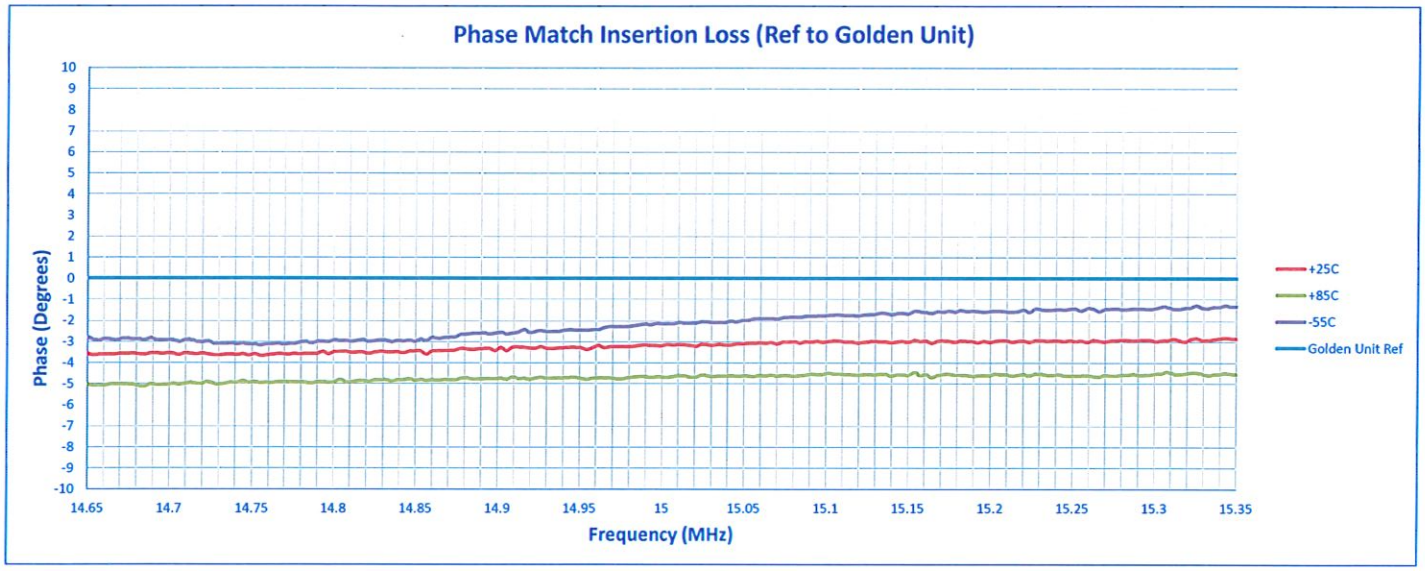

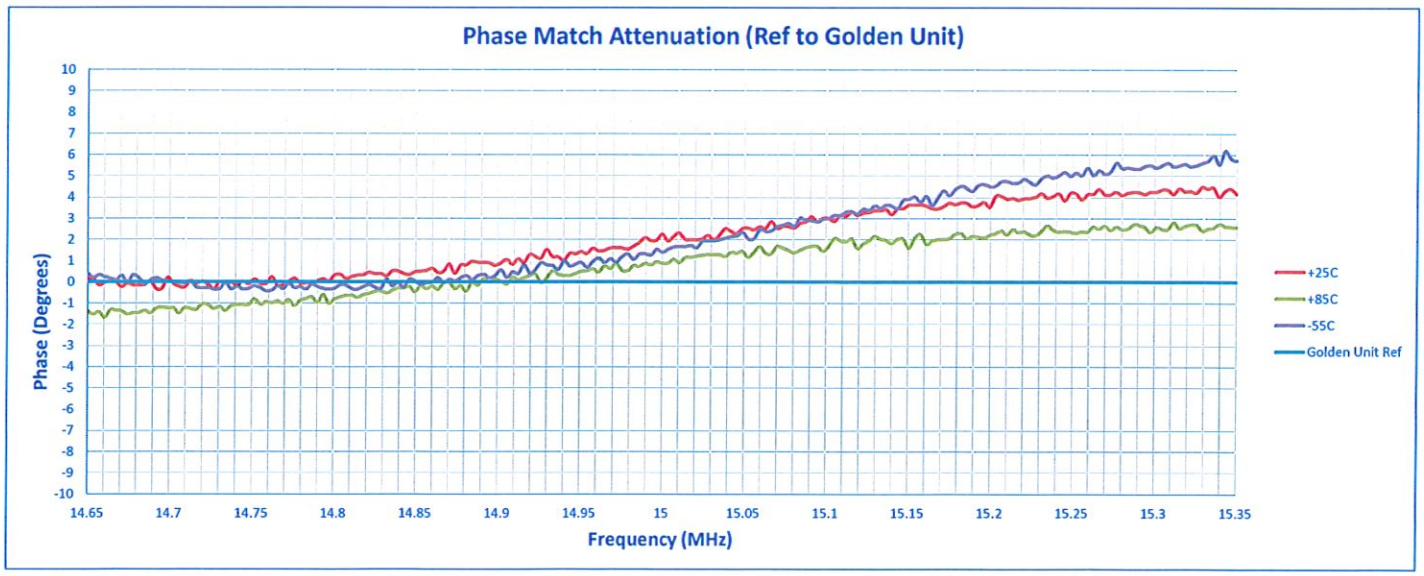

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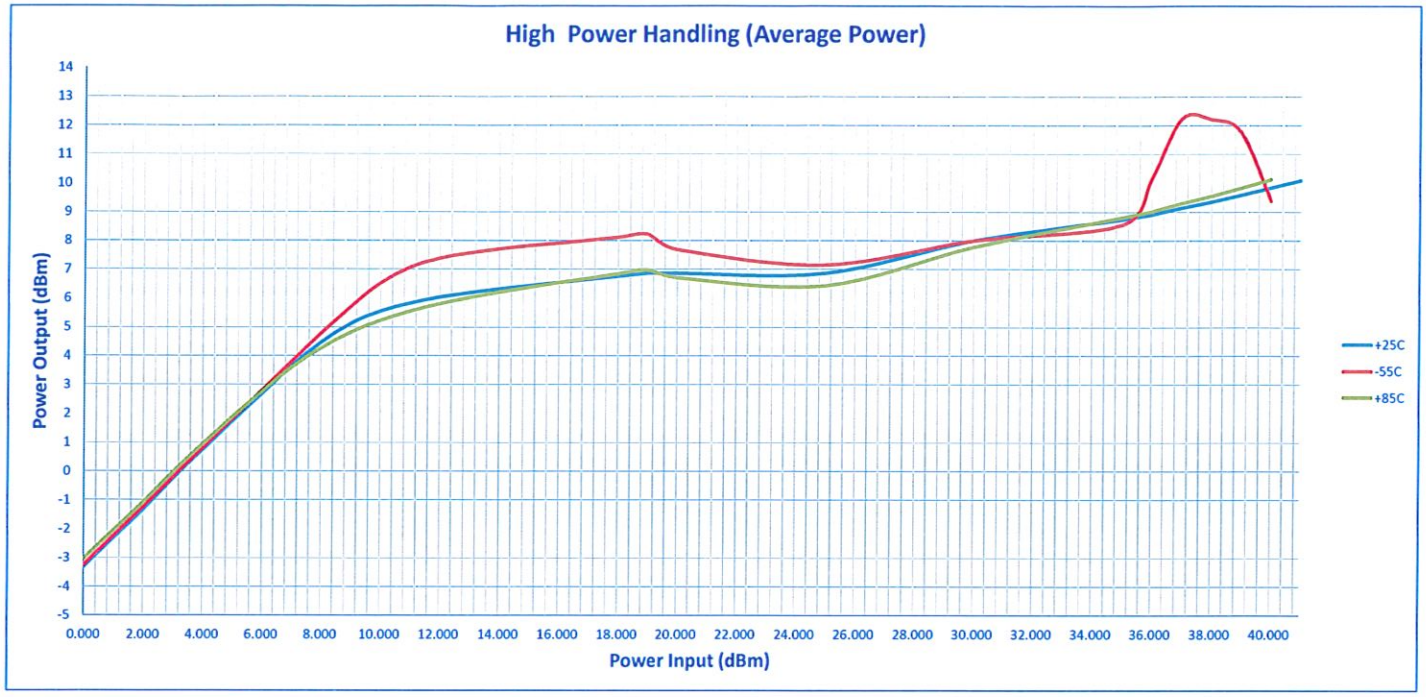

	High Power Test Data (Average Power)					
	15GHz					
	-55°C		+25°C		+85°C	
Power Input (dbm)	Power Output (dbm)	Loss	Power Output (dbm)	Loss	Power Output (dbm)	Loss
0.000	-3.256	3.256	-3.315	3.315	-3.043	3.043
1.000	-2.256	3.256	-2.324	3.324	-2.064	3.064
2.000	-1.255	3.255	-1.340	3.340	-1.093	3.093
3.000	-0.215	3.215	-0.258	3.258	-0.044	3.044
4.000	0.798	3.202	0.738	3.262	0.927	3.073
5.000	1.798	3.202	1.721	3.279	1.864	3.136
6.000	2.799	3.201	2.695	3.305	2.761	3.239
7.000	3.790	3.210	3.626	3.374	3.581	3.419
8.000	4.770	3.230	4.466	3.534	4.268	3.732
9.000	5.702	3.298	5.121	3.879	4.813	4.187
10.000	6.506	3.494	5.548	4.452	5.223	4.777
11.000	7.068	3.932	5.826	5.174	5.542	5.458
12.000	7.379	4.621	6.027	5.973	5.801	6.199
13.000	7.570	5.430	6.184	6.816	6.017	6.983
14.000	7.706	6.294	6.317	7.683	6.204	7.796
15.000	7.817	7.183	6.436	8.564	6.378	8.622
16.000	7.917	8.083	6.547	9.453	6.538	9.462
17.000	8.013	8.987	6.653	10.347	6.693	10.307
18.000	8.111	9.889	6.758	11.242	6.844	11.156
19.000	8.220	10.780	6.863	12.137	6.990	12.010
20.000	7.687	12.313	6.862	13.138	6.713	13.287
25.000	7.154	17.846	6.861	18.139	6.435	18.565
30.000	7.996	22.004	7.998	22.002	7.775	22.225
35.000	8.547	26.453	8.733	26.267	8.798	26.202
36.000	10.128	25.872	8.901	27.099	9.016	26.984
37.000	12.222	24.778	9.131	27.869	9.294	27.706
38.000	12.204	25.796	9.346	28.654	9.546	28.454
39.000	11.775	27.225	9.579	29.421	9.827	29.173
40.000	9.379	30.621	9.834	30.166	10.120	29.880
41.000			10.088	30.912		

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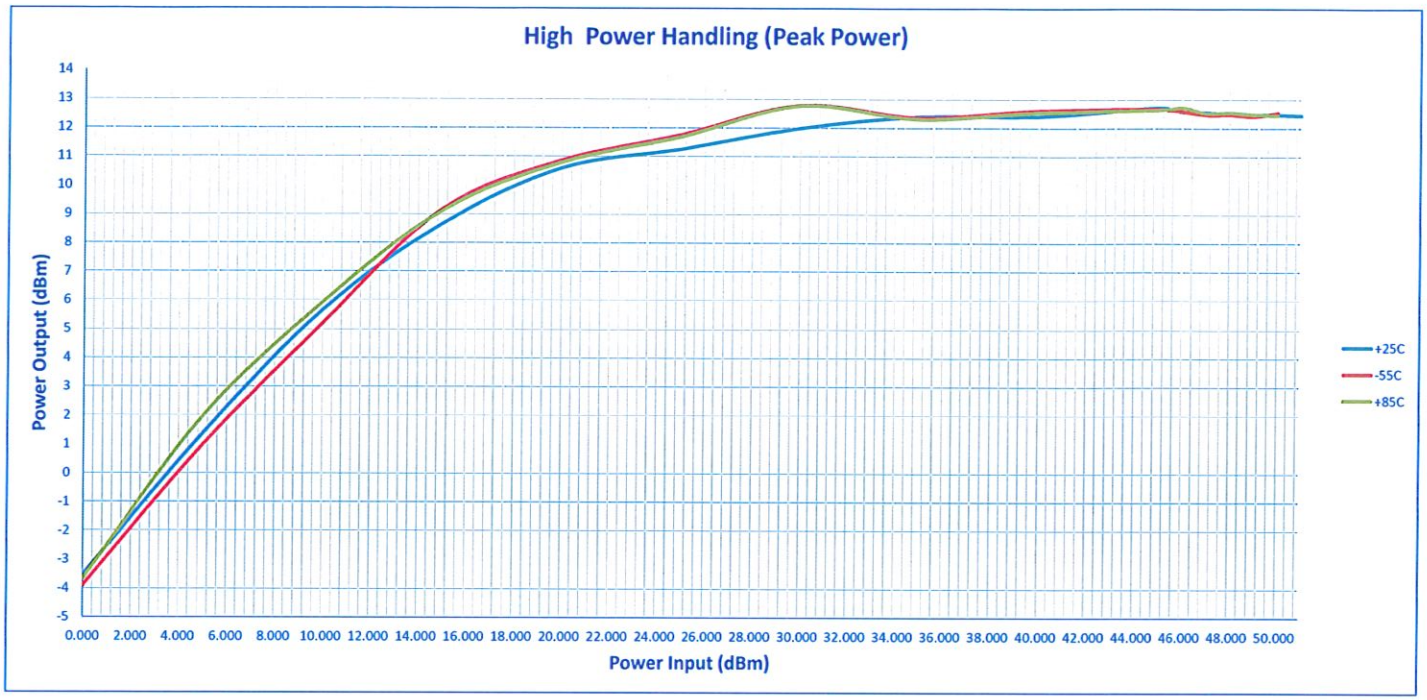

	High Power Test Data (Peak)					
	15GHz					
	-55°C		+25°C		+85°C	
Power Input (dbm)	Power Output (dbm)	Loss	Power Output (dbm)	Loss	Power Output (dbm)	Loss
0.000	-3.910	3.910	-3.545	3.545	-3.692	3.692
5.000	0.970	4.030	1.375	3.625	1.958	3.042
10.000	5.190	4.810	5.655	4.345	5.918	4.082
15.000	9.160	5.840	8.645	6.355	9.108	5.892
20.000	10.870	9.130	10.595	9.405	10.798	9.202
25.000	11.760	13.240	11.255	13.745	11.688	13.312
30.000	12.770	17.230	11.985	18.015	12.758	17.242
35.000	12.360	22.640	12.395	22.605	12.308	22.692
40.000	12.610	27.390	12.405	27.595	12.538	27.462
45.000	12.670	32.330	12.715	32.285	12.638	32.362
46.000	12.590	33.410	12.575	33.425	12.718	33.282
47.000	12.470	34.530	12.555	34.445	12.528	34.472
48.000	12.480	35.520	12.495	35.505	12.548	35.452
49.000	12.420	36.580	12.485	36.515	12.488	36.512
50.000	12.540	37.460	12.475	37.525	12.448	37.552
51.000			12.445	38.555		

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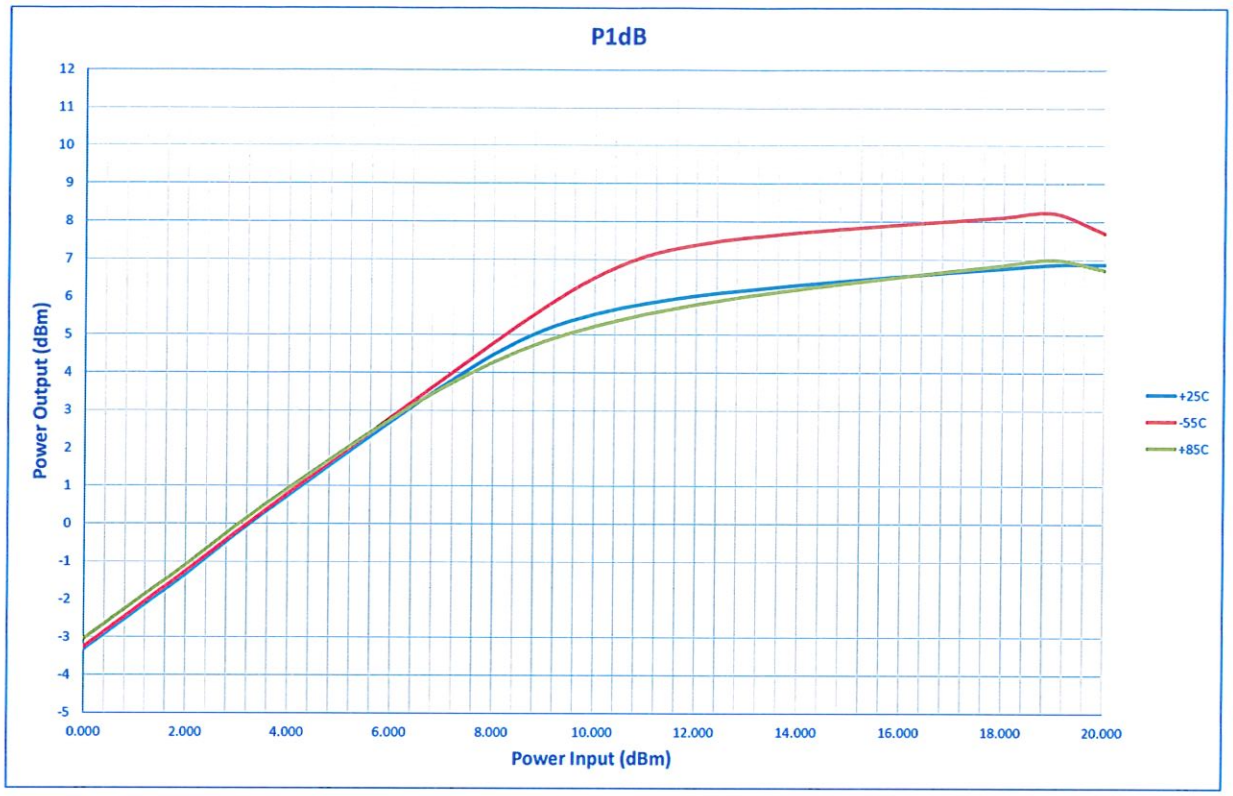
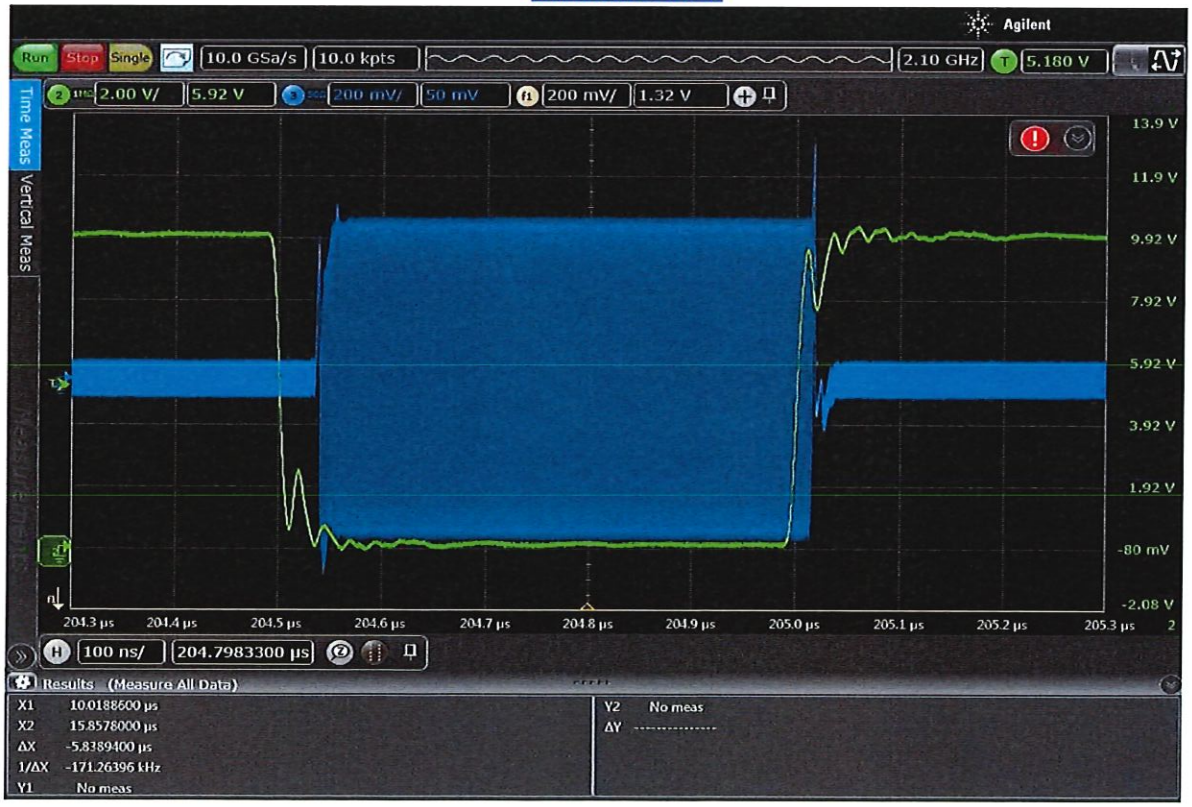


SWITCHING SPEED



Green – TTL
Blue- Signal RF

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