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

Customer:
SO No:
Model No: PLA-14D65G15G35G-20DB-SFF-250W
Serial No: PL35111/2150

Tested By: Y Li
Temperature: +25°C
Date: 12/20/2021
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	3.1 dB See Graph	2.9 dB See Graph	2.9 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	±0.1 dB See Graph	±0.1 dB See Graph	±0.1 dB See Graph	
8	Attenuation Accuracy:	± 1 dB Max	±0.4 dB See Graph	±0.4 dB See Graph	±0.5 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)	5.6° See Graph	4.8° See Gaph	5.2° 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	1.6:1	1.7:1	1.7:1	PMI QA1

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

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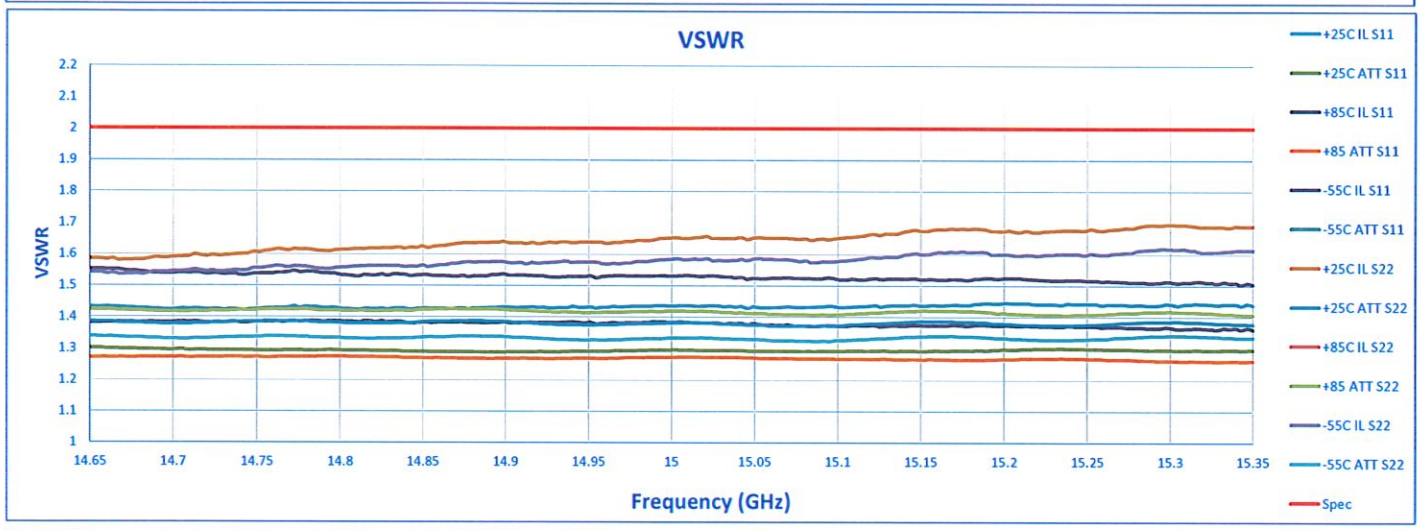

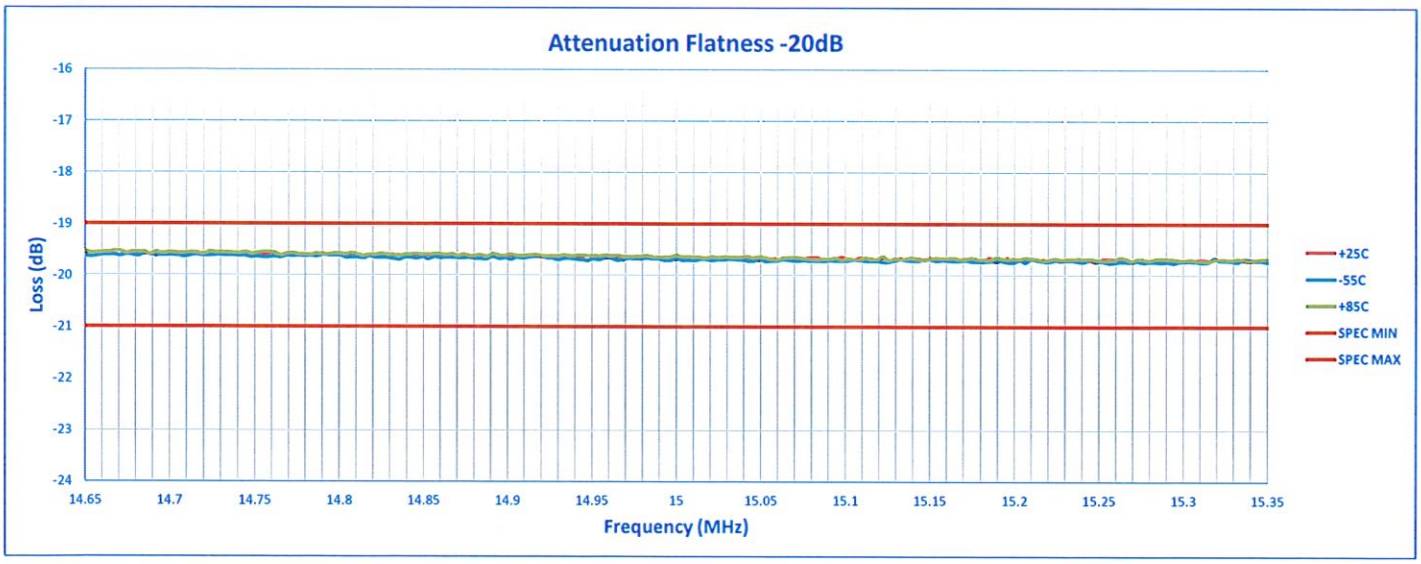

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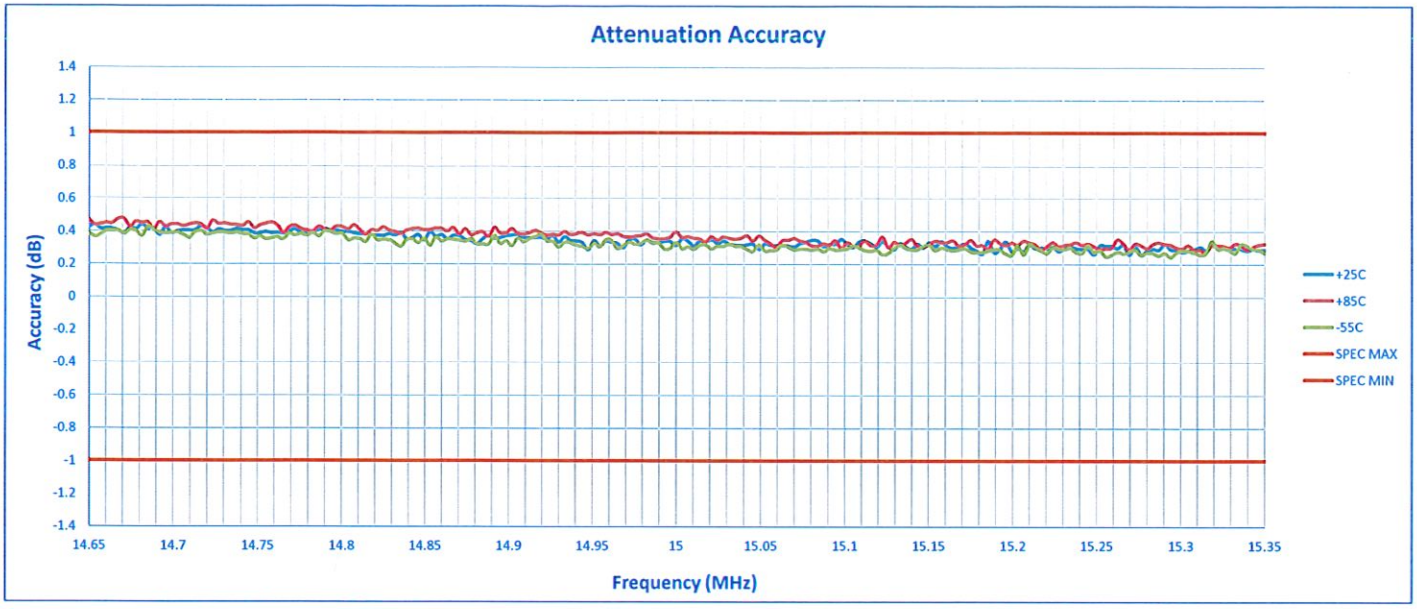

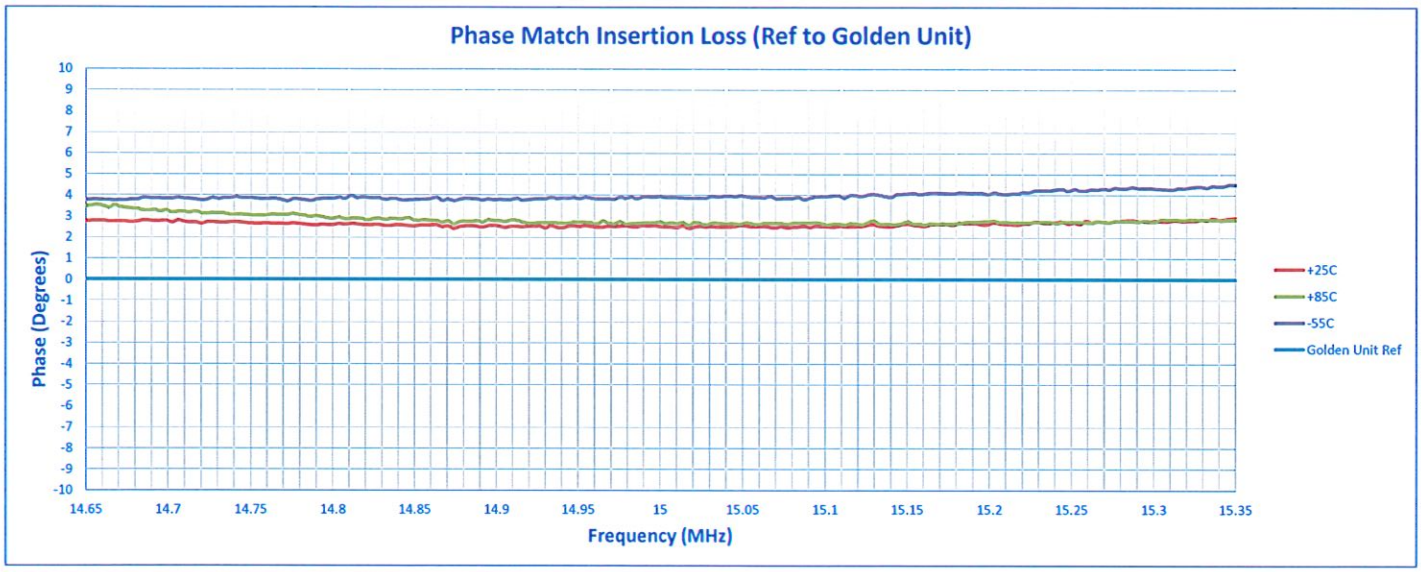

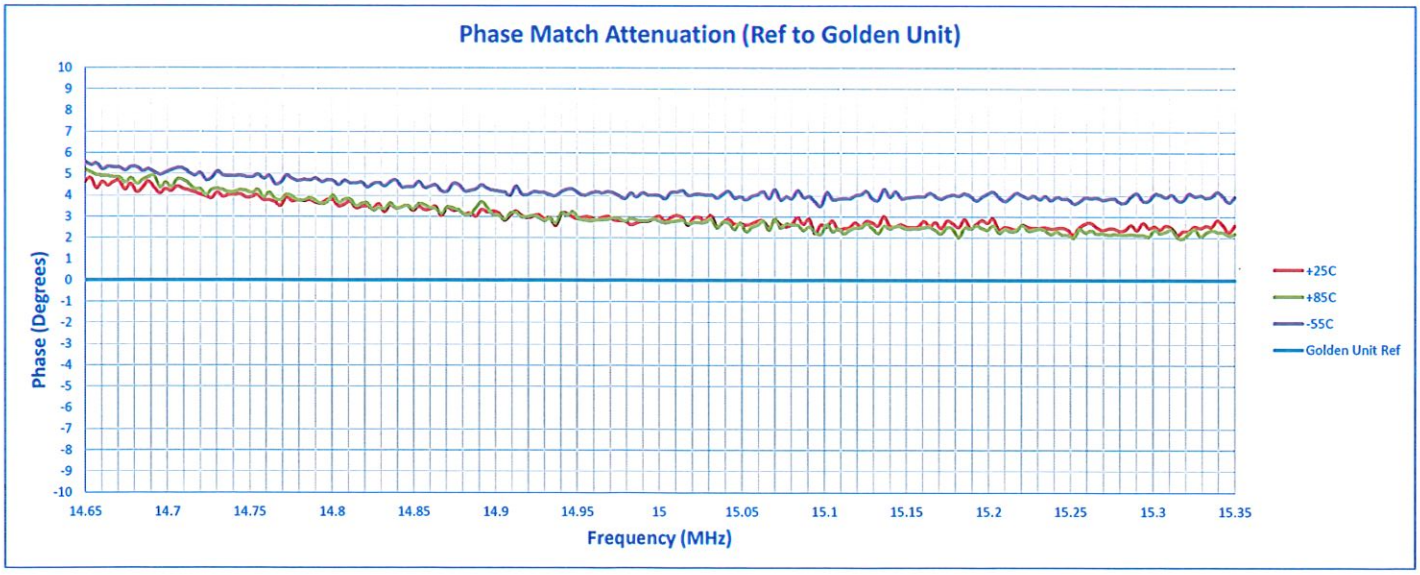

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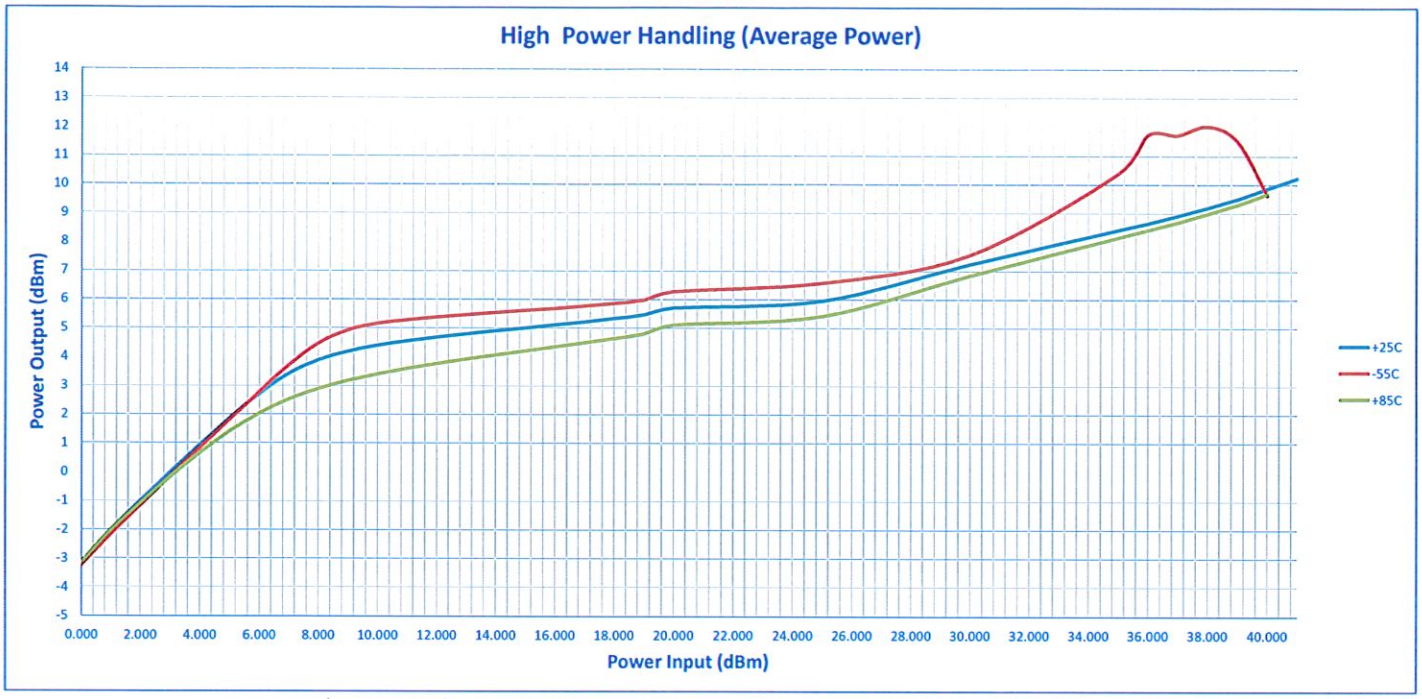

	High Power Test Data (Average Power) 15GHz					
	-55°C		+25°C		+85°C	
Power Input (dbm)	Power Output (dbm)	Loss	Power Output (dbm)	Loss	Power Output (dbm)	Loss
0.000	-3.255	3.255	-3.139	3.139	-3.172	3.172
1.000	-2.199	3.199	-2.022	3.022	-2.056	3.056
2.000	-1.187	3.187	-1.023	3.023	-1.109	3.109
3.000	-0.178	3.178	-0.034	3.034	-0.197	3.197
4.000	0.814	3.186	0.928	3.072	0.646	3.354
5.000	1.799	3.201	1.863	3.137	1.403	3.597
6.000	2.767	3.233	2.719	3.281	2.029	3.971
7.000	3.691	3.309	3.412	3.588	2.517	4.483
8.000	4.456	3.544	3.886	4.114	2.886	5.114
9.000	4.921	4.079	4.190	4.810	3.171	5.829
10.000	5.150	4.850	4.399	5.601	3.400	6.600
11.000	5.281	5.719	4.556	6.444	3.594	7.406
12.000	5.375	6.625	4.687	7.313	3.763	8.237
13.000	5.454	7.546	4.801	8.199	3.919	9.081
14.000	5.529	8.471	4.909	9.091	4.066	9.934
15.000	5.604	9.396	5.014	9.986	4.209	10.791
16.000	5.681	10.319	5.118	10.882	4.350	11.650
17.000	5.765	11.235	5.225	11.775	4.493	12.507
18.000	5.857	12.143	5.340	12.660	4.642	13.358
19.000	5.961	13.039	5.460	13.540	4.798	14.202
20.000	6.263	13.738	5.706	14.294	5.111	14.889
25.000	6.564	18.436	5.952	19.048	5.424	19.576
30.000	7.546	22.454	7.228	22.772	6.837	23.163
35.000	10.369	24.631	8.419	26.581	8.157	26.843
36.000	11.722	24.278	8.659	27.341	8.418	27.582
37.000	11.718	25.282	8.918	28.082	8.692	28.308
38.000	12.025	25.975	9.201	28.799	8.986	29.014
39.000	11.498	27.502	9.507	29.493	9.303	29.697
40.000	9.621	30.379	9.868	30.132	9.683	30.317
41.000			10.229	30.771		

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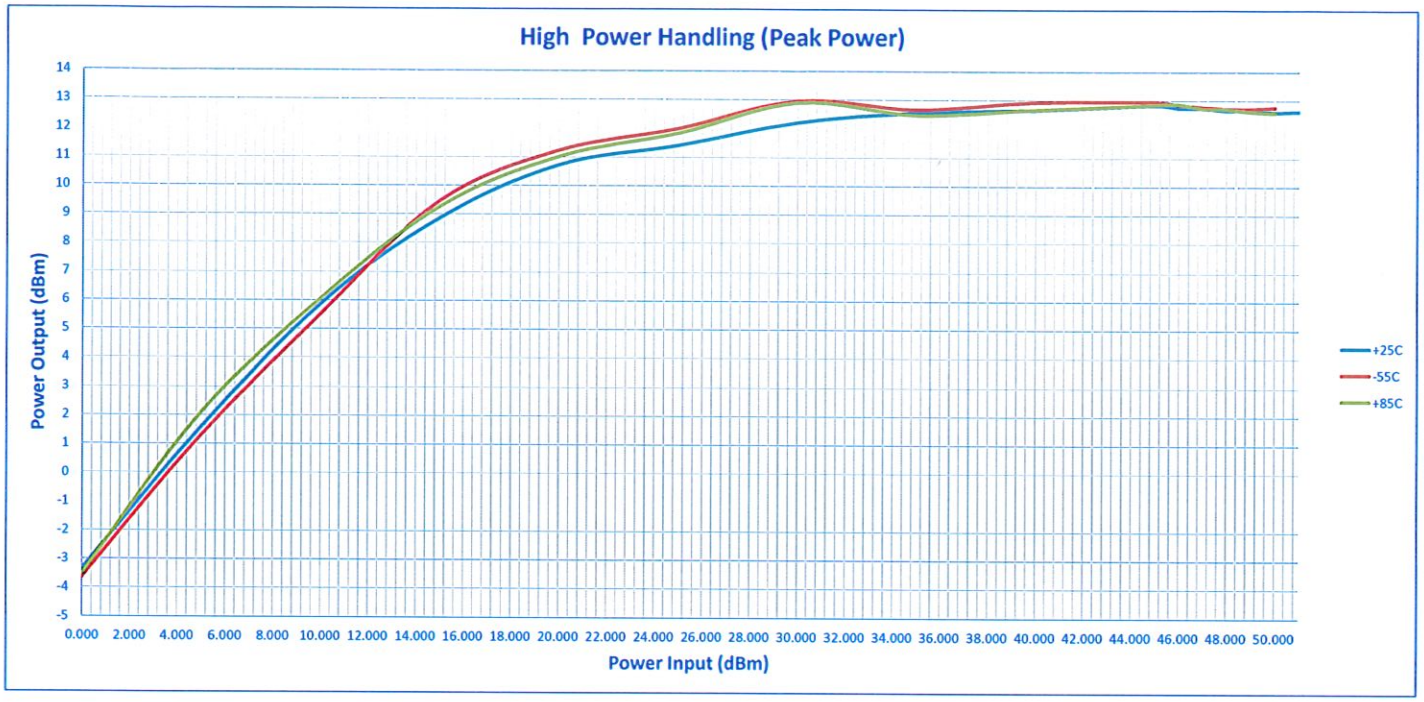

	High Power Test Data (Peak)					
	15GHz					
	-55°C		+25°C		+85°C	
Power Input (dbm)	Power Output (dbm)	Loss	Power Output (dbm)	Loss	Power Output (dbm)	Loss
0.000	-3.653	3.653	-3.348	3.348	-3.522	3.522
5.000	1.287	3.713	1.582	3.418	2.088	2.912
10.000	5.507	4.493	5.872	4.128	6.058	3.942
15.000	9.447	5.553	8.862	6.138	9.258	5.742
20.000	11.217	8.783	10.722	9.278	11.008	8.992
25.000	11.987	13.013	11.402	13.598	11.828	13.172
30.000	12.957	17.043	12.212	17.788	12.898	17.102
35.000	12.667	22.333	12.562	22.438	12.478	22.522
40.000	12.927	27.073	12.662	27.338	12.678	27.322
45.000	12.947	32.053	12.842	32.158	12.858	32.142
46.000	12.847	33.153	12.742	33.258	12.878	33.122
47.000	12.777	34.223	12.742	34.258	12.728	34.272
48.000	12.717	35.283	12.662	35.338	12.708	35.292
49.000	12.717	36.283	12.662	36.338	12.618	36.382
50.000	12.767	37.233	12.602	37.398	12.578	37.422
51.000			12.632	38.368		

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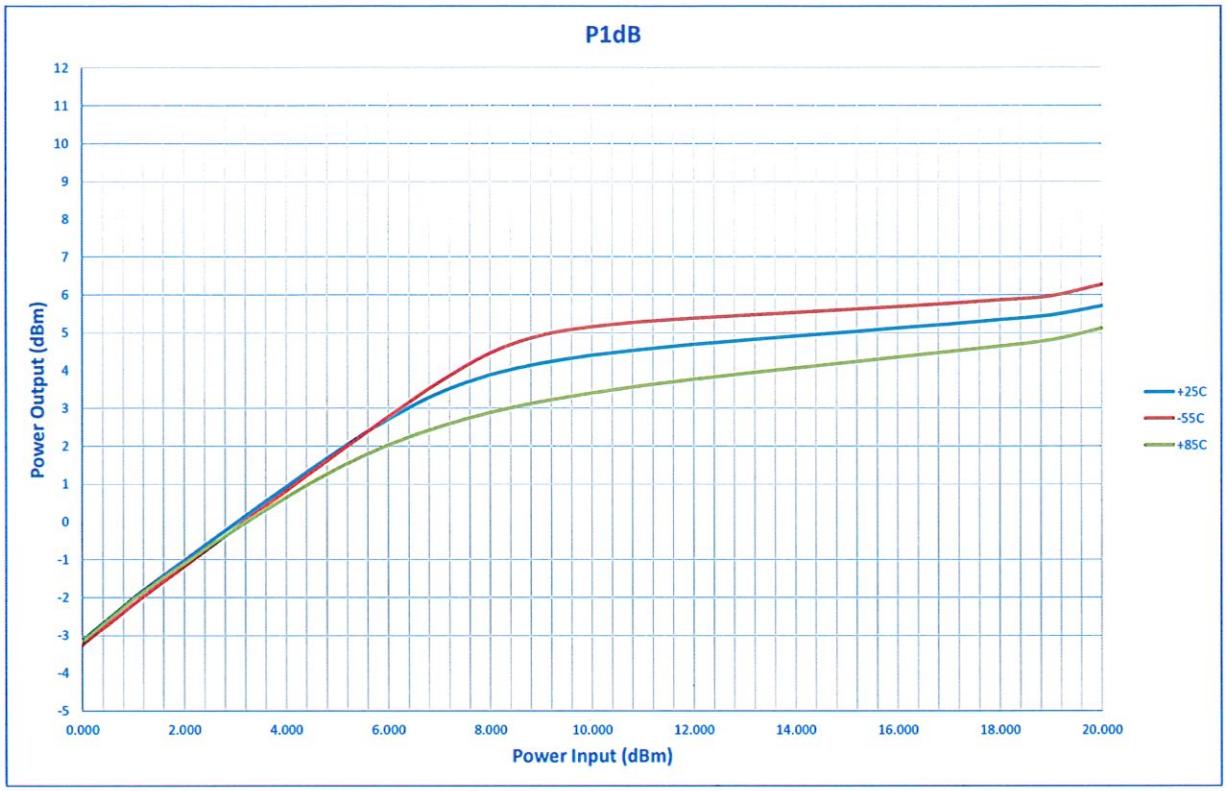
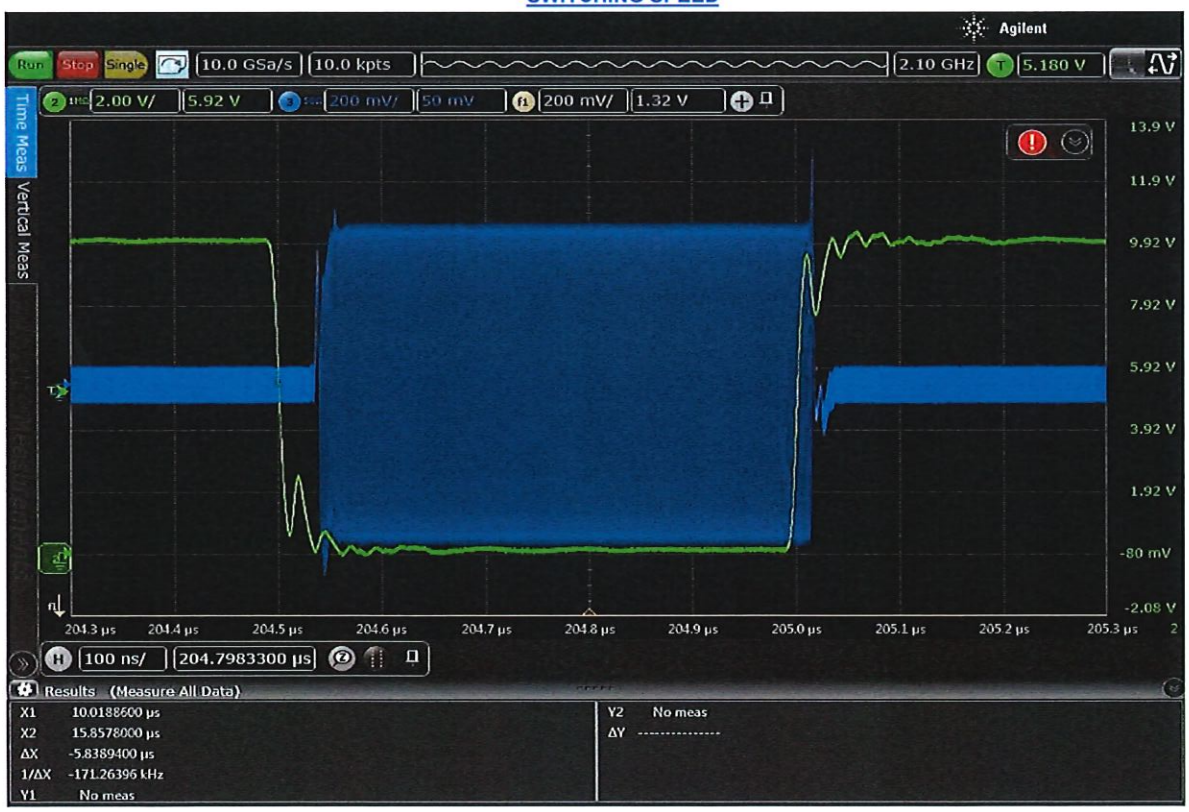


SWITCHING SPEED



Green – TTL
Blue- Signal RF

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