



**TYPICAL CHARACTERISTICS
FOR
DD-1G18G-ZBS-SMF**



TESTED BY: RANDY COMBS / SEBASTIAN PALACIO

REPORTED BY: RANDY COMBS / SEBASTIAN PALACIO

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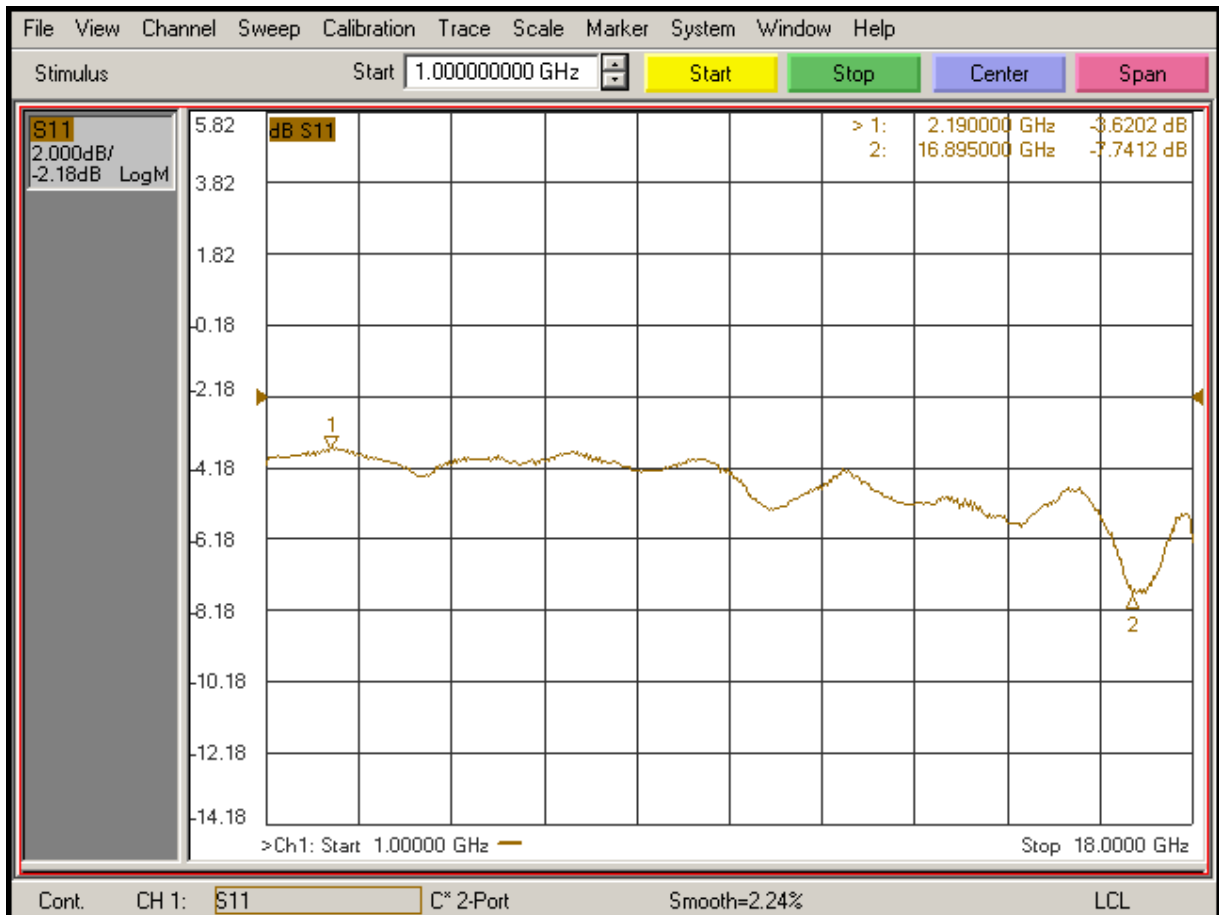
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TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	1.0 GHz TO 18.0 GHz	Pass 1.0 TO 18.0 GHz	
2	VSWR:	8.0:1 Typ.	4.89:1 (See Plot)	
3	Flatness:	± 1.0dB Typ.	±1.0dB Typ. (See Plots)	
4	Propagation Delay:	40ns Typ.	30ns (See Plots)	
5	Output Polarity:	Positive	Pass	
6	Input Power :	100mW (Derated to 0 at +150°C)	Pass By Design	
7	Voltage Sensitivity:	y = Output Voltage (V) x = Input Power (mW)	y = 0.0026e0.1566x	



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VSWR



OUTPUT VOLTAGE vs INPUT POWER

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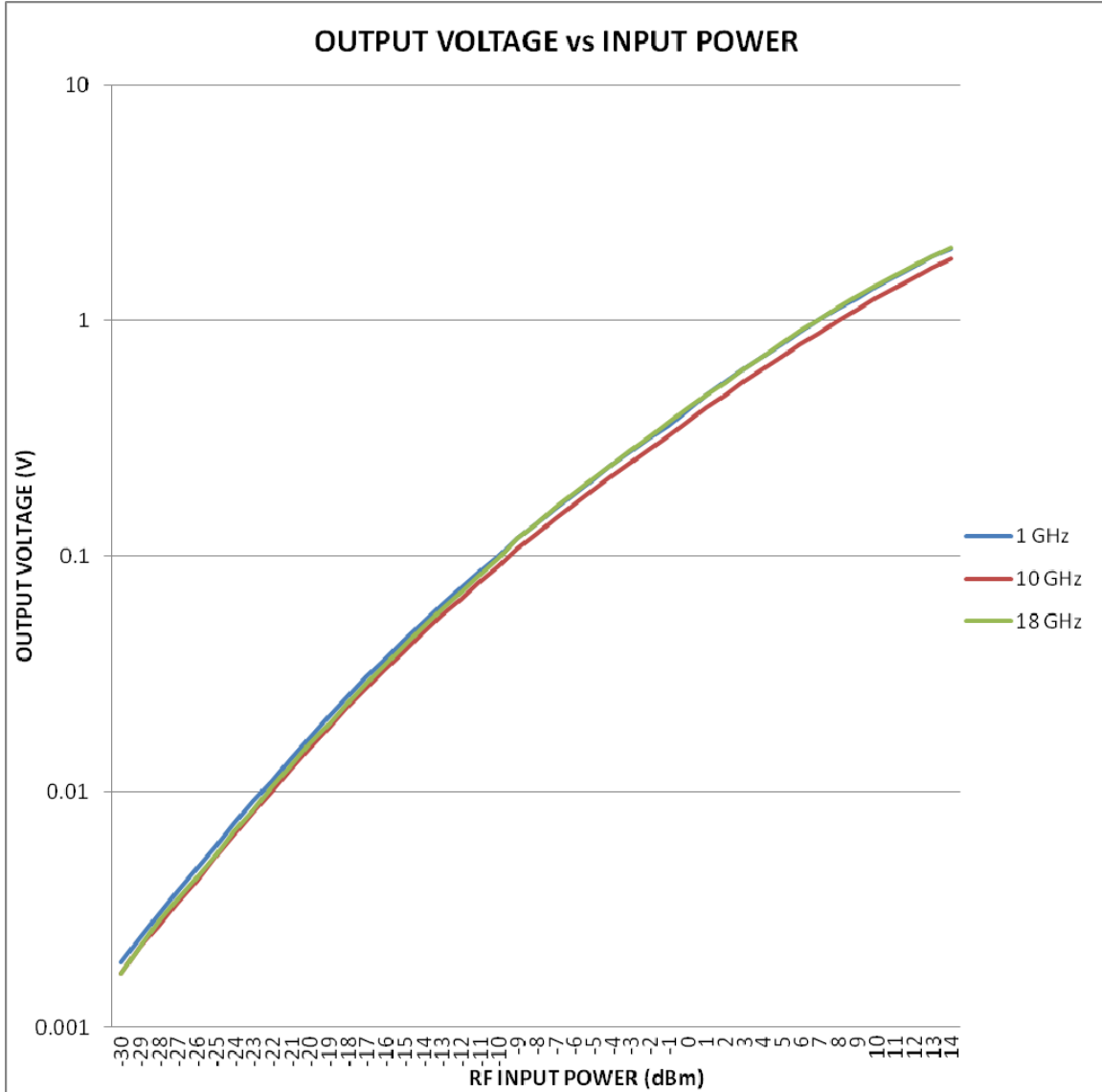
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RF INPUT POWER	OUTPUT VOLTAGE (V) @ 1 GHz	OUTPUT VOLTAGE (V) @ 10 GHz	OUTPUT VOLTAGE (V) @ 18 GHz
-30	0.0019	0.0017	0.0017
-29	0.0024	0.0022	0.0022
-28	0.003	0.0027	0.0028
-27	0.0038	0.0034	0.0035
-26	0.0047	0.0042	0.0043
-25	0.0059	0.0053	0.0054
-24	0.0073	0.0066	0.0068
-23	0.0091	0.0082	0.0084
-22	0.0112	0.0101	0.0105
-21	0.0138	0.0125	0.0129
-20	0.017	0.0154	0.016
-19	0.0208	0.0188	0.0194
-18	0.0253	0.0229	0.0237
-17	0.0306	0.0276	0.0288
-16	0.0368	0.0332	0.0348
-15	0.0441	0.0398	0.0418
-14	0.0524	0.0473	0.05
-13	0.0621	0.0561	0.0596
-12	0.0731	0.0661	0.0706
-11	0.0858	0.0776	0.0833
-10	0.1004	0.0908	0.098
-9	0.1189	0.1075	0.1187
-8	0.138	0.1246	0.1381
-7	0.1596	0.1439	0.1601
-6	0.1841	0.1657	0.1852
-5	0.212	0.1905	0.213
-4	0.243	0.218	0.245
-3	0.278	0.249	0.282
-2	0.318	0.285	0.323
-1	0.359	0.325	0.37
0	0.414	0.371	0.423
1	0.483	0.427	0.482
2	0.549	0.484	0.548
3	0.623	0.549	0.623
4	0.703	0.621	0.706
5	0.795	0.701	0.799
6	0.896	0.79	0.901
7	1.006	0.889	1.014
8	1.125	0.997	1.136
9	1.252	1.115	1.268
10	1.396	1.242	1.41
11	1.545	1.379	1.559
12	1.701	1.524	1.714
13	1.865	1.676	1.874
14	2.03	1.836	2.04

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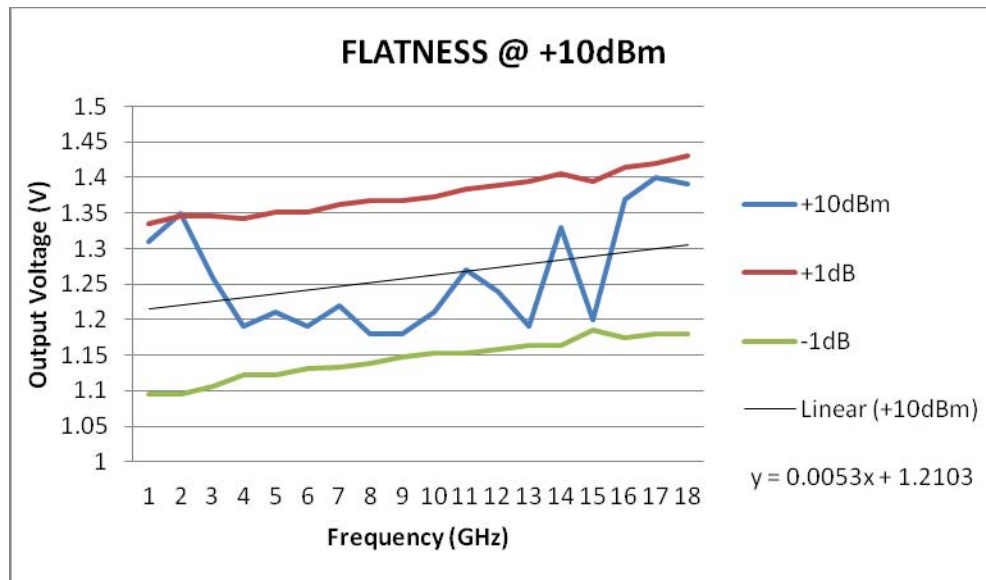
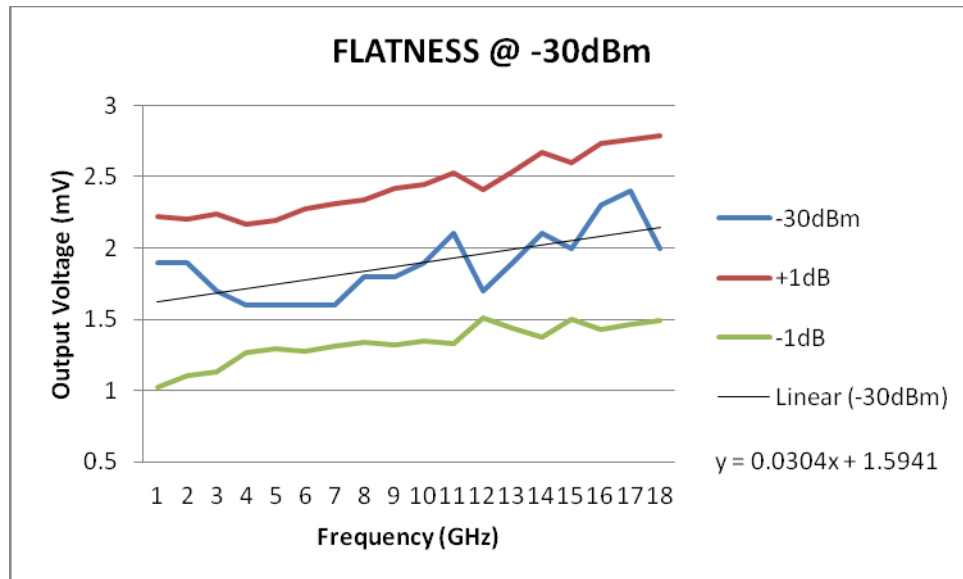


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FLATNESS



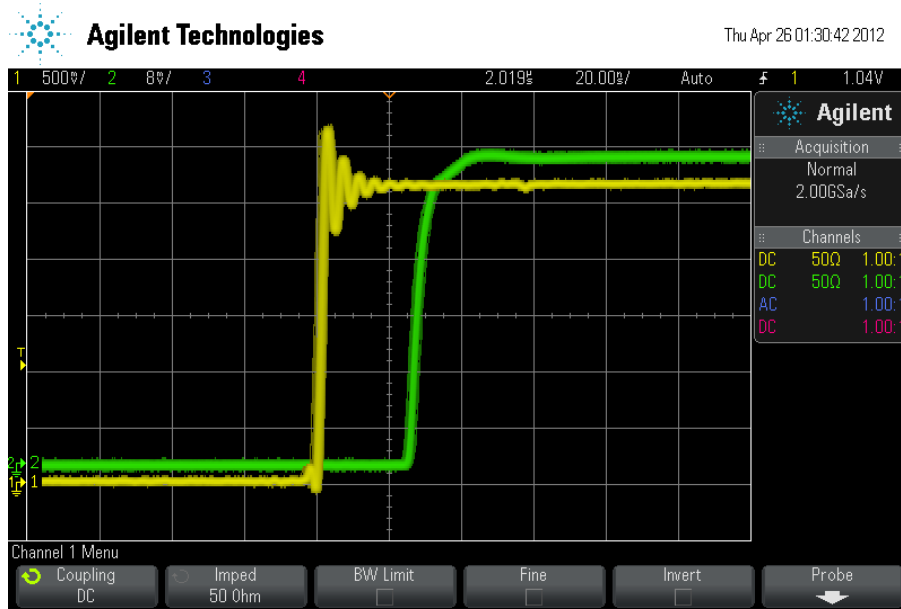
Propagation Delay

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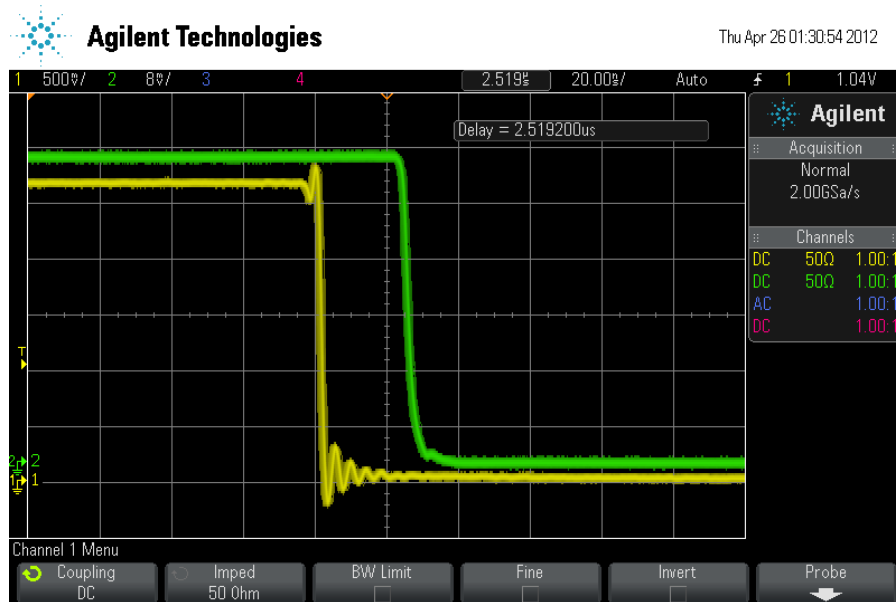


TYPICAL CHARACTERISTICS FOR DD-1G18G-ZBS-SMF

ON Delay



OFF Delay



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