



**SUMMARY TEST DATA
ON
SDLVA-0R61R1-65-CD-SFF-1**

Customer: _____ Tested By: E.Benson
 SO No: _____ Temperature: +25°C
 Model No: SDLVA-0R61R1-65-CD-SFF-1 Date: 09/07/2013
 Serial No: PL13930/1388 Drawing No: 27619513 Rev: A1

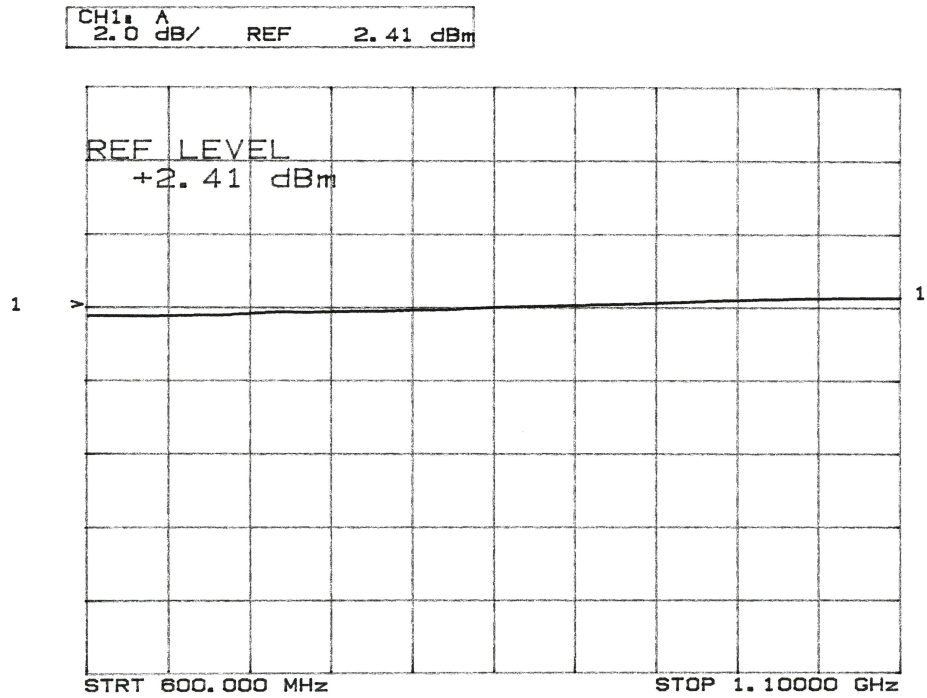
TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	600MHz to 1.1GHz	See Plot #1	
2	RF Output: (Limiting Level)	0 to +5dBm W/J1 Input @ -45Bm	<u>2.41</u> dBm See Plot #1	
3	RF Limit Level Flatness	± 1.50dB Max W/J1 Input @ -45dBm	<u>± .1</u> dB See Plot #1	
4	TSS:	-68dBm Max	<u>-74.5</u> dBm See Plot #2	
5	VSWR:	2.0:1 (J1 VSWR)	(J1) <u>1.216</u> :1 See Plot #3	
6	Power Input:	+13dBm CW Max (J1)	Pass	
7	Log Range:	-65 to 0 dBm	-70 to +3dBm	
8	Output Offset:	100mv(J3) (Typ @ +25°C)	80 mV	
9	Log Slope: (100Ω Load)	30mV/dB ±1.5mv/dB (J3) (@+25°C)	<u>29</u> mV/dB See Plot #4A	
10	Log Linearity:	±1.2dB (J3) (@+25°C)	See Plots #4A	
11	Log Linearity:	±2.0dB (J3) (-20°C & +70°C)	See Plots #4B & 4C	
12	Pulse Range:	30ns to CW	Pass	
13	Rise Time:	30ns (Max)	<u>12.45</u> ns	
14	Fall Time:	40ns (Max)	<u>37.4</u> ns	
15	Recovery Time:	80ns (Max)	<u>72.2</u> ns	
16	DC Supply:	+12VDC @ 300 mA -12VDC @ 200 mA	<u>180</u> mA <u>110</u> mA	

QA/QC Approval: _____ Date: _____



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ON
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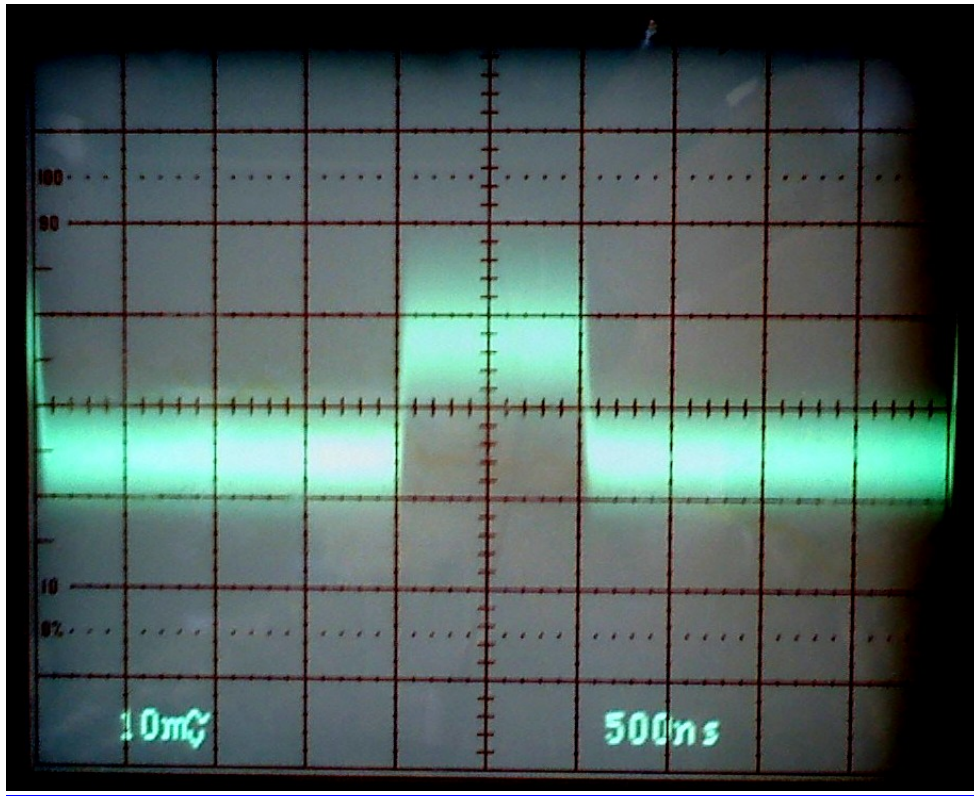
LIMITING LEVEL #1





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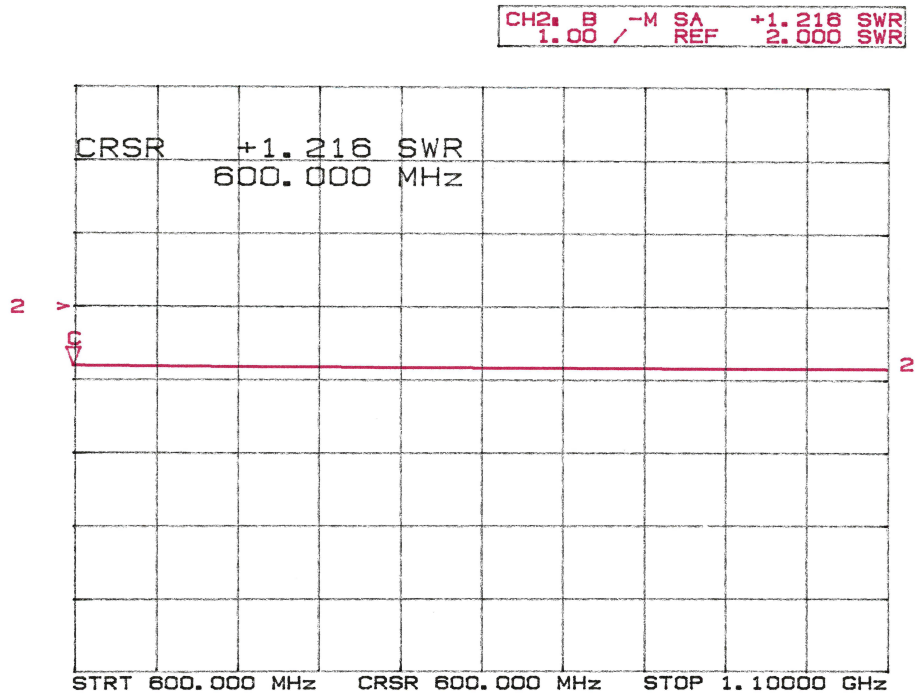
TSS PLOT #2





**SUMMARY TEST DATA
ON
SDLVA-0R61R1-65-CD-SFF-1**

VSWR PLOT #3





**SUMMARY TEST DATA
ON
SDLVA-0R61R1-65-CD-SFF-1**

LOG SLOPE / LINEARITY PLOTS #4A

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0R61R1-65-CD-SFF-1
TESTED BY: EBenson
TEST DATE: 09/07/2013
SERIAL NO: PL13930
TEST TEMP: +25C

Saturday, September 07, 2013
2:35 PM

Plot #5A



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704
USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM

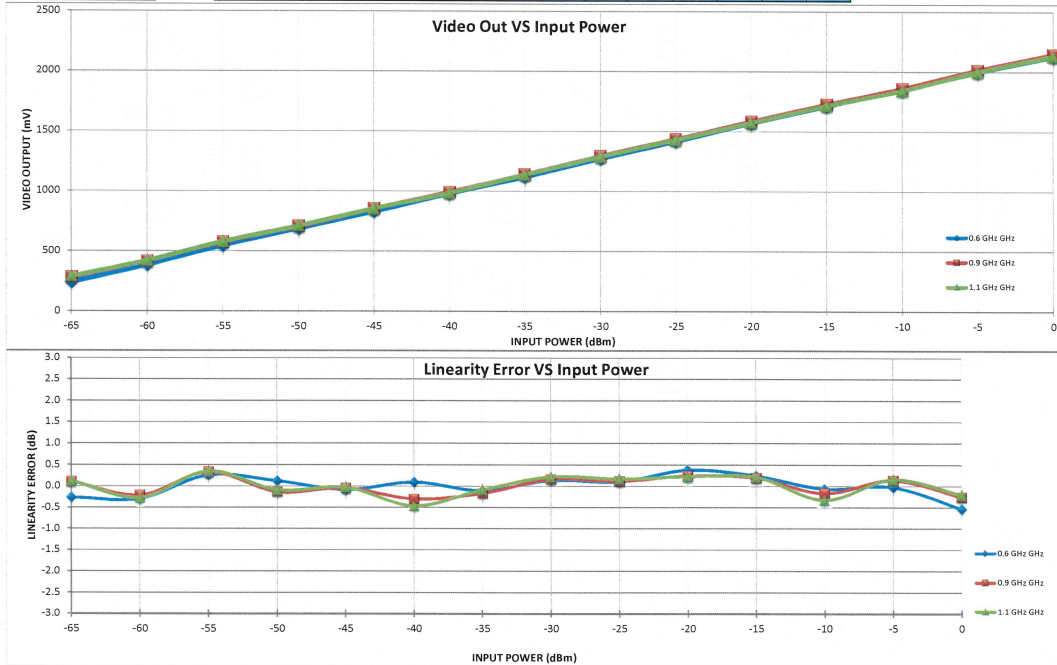
Frequency

0.6 GHz INTERCEPT (mV) 2146
SLOPE (mV/dB) 29.18

0.9 GHz INTERCEPT (mV) 2154
SLOPE (mV/dB) 28.87

1.1 GHz INTERCEPT (mV) 2136
SLOPE (mV/dB) 28.47

RF Input Power (dBm)	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.6 GHz Measured Value (mV)	241	386	548	690	830	981	1121	1274	1419	1573	1715	1852	1999	2130
0.6 GHz Error (mV)	-8	-9	8	4	-2	3	-3	4	3	11	7	-2	-1	-16
0.6 GHz Linearity Error (dB)	-0.26	-0.29	0.26	0.12	-0.08	0.10	-0.11	0.14	0.10	0.38	0.25	-0.06	-0.02	-0.53
0.9 GHz Measured Value (mV)	281	416	576	707	854	991	1139	1293	1436	1584	1727	1861	2014	2147
0.9 GHz Error (mV)	3	-6	9	-4	-1	-9	-5	5	3	7	6	-5	4	-7
0.9 GHz Linearity Error (dB)	0.11	-0.22	0.33	-0.14	-0.04	-0.30	-0.17	0.16	0.12	0.24	0.19	-0.16	0.14	-0.26
1.1 GHz Measured Value (mV)	289	420	580	710	854	984	1137	1288	1429	1573	1715	1842	1996	2130
1.1 GHz Error (mV)	4	-8	10	-2	-1	-13	-2	6	5	7	6	-9	4	-6
1.1 GHz Linearity Error (dB)	0.13	-0.27	0.35	-0.09	-0.03	-0.46	-0.09	0.22	0.17	0.23	0.22	-0.32	0.16	-0.21
Flatness +/-dB	0.8	0.6	0.6	0.3	0.4	0.2	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3





**SUMMARY TEST DATA
ON
SDLVA-0R61R1-65-CD-SFF-1**

LOG SLOPE / LINEARITY PLOTS #4B

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0R61R1-65-CD-SFF-1
TESTED BY: EBenson
TEST DATE: 09/07/2013
SERIAL NO: PL13930
TEST TEMP: -20C

Saturday, September 07, 2013
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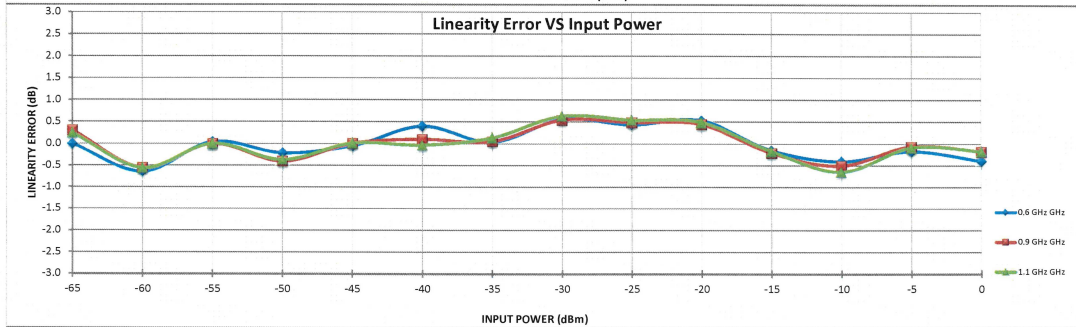
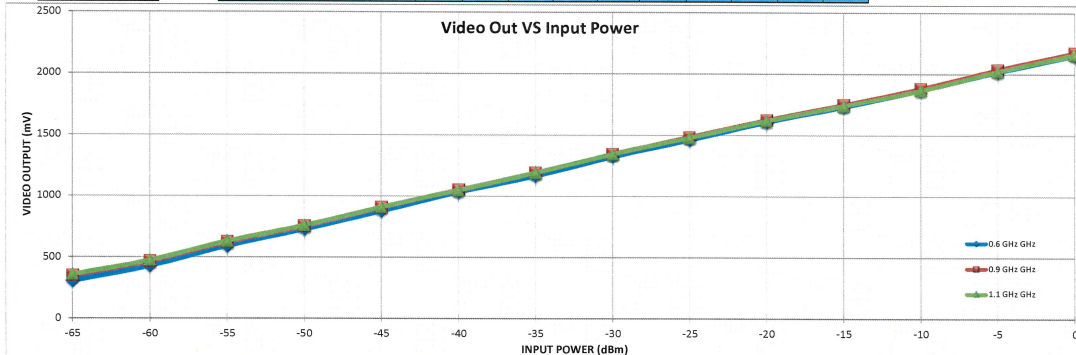
Plot #5B



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704
USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM

Frequency

			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.6 GHz	INTERCEPT (mV)	2169	306	431	594	730	878	1034	1167	1325	1465	1611	1735	1871	2021	2158
	SLOPE (mV/dB)	28.66	0	-18	1	-6	-1	11	1	16	12	15	-4	-12	-5	-11
			0.00	-0.64	0.05	-0.21	-0.04	0.40	0.04	0.55	0.43	0.53	-0.15	-0.40	-0.17	-0.39
0.9 GHz	INTERCEPT (mV)	2178	349	486	623	753	906	1050	1190	1345	1485	1625	1748	1881	2035	2173
	SLOPE (mV/dB)	28.27	9	-16	0	-11	0	3	1	15	14	12	-6	-14	-2	-5
			0.30	-0.56	-0.01	-0.41	0.01	0.10	0.05	0.53	0.49	0.44	-0.21	-0.51	-0.06	-0.18
1.1 GHz	INTERCEPT (mV)	2163	358	475	630	759	909	1047	1191	1344	1481	1619	1740	1866	2021	2158
	SLOPE (mV/dB)	27.87	7	-16	0	-10	0	-4	-4	17	15	14	-5	-15	-2	-5
			0.24	-0.56	0.00	-0.37	0.01	-0.04	0.13	0.62	0.54	0.49	-0.17	-0.65	-0.09	-0.17
Flatness +/-dB	0.9 0.8 0.6 0.5 0.5 0.3 0.4 0.4 0.4 0.2 0.2 0.3 0.2 0.3															





**SUMMARY TEST DATA
ON
SDLVA-0R61R1-65-CD-SFF-1**

LOG SLOPE / LINEARITY PLOTS #4C

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0R61R1-65-CD-SFF-1
TESTED BY: EBenson
TEST DATE: 09/07/2013
SERIAL NO: PL13930
TEST TEMP: +70C

Saturday, September 07, 2013
2:33 PM

Plot #5C



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704
USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM

Frequency

0.6 GHz INTERCEPT (mV) 2103
SLOPE (mV/dB) 30.09

0.9 GHz INTERCEPT (mV) 2117
SLOPE (mV/dB) 29.9

1.1 GHz INTERCEPT (mV) 2097
SLOPE (mV/dB) 29.42

Flatness +/-dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.6 GHz	123	290	465	623	752	898	1041	1195	1347	1502	1668	1813	1956	2079
0.6 GHz	-24	-8	17	24	3	-1	-9	-5	-4	1	16	11	3	-24
0.6 GHz	-0.81	-0.26	0.56	0.81	0.10	-0.05	-0.30	-0.18	-0.13	0.02	0.54	0.36	0.11	-0.80
0.9 GHz	156	327	491	638	773	907	1061	1213	1366	1514	1684	1824	1976	2104
0.9 GHz	-18	4	18	16	1	-14	-10	-7	-4	-5	16	6	9	-13
0.9 GHz	-0.59	0.13	0.62	0.53	0.05	-0.47	-0.32	-0.24	-0.12	-0.17	0.52	0.20	0.29	-0.43
1.1 GHz	165	338	500	644	778	901	1058	1209	1361	1502	1669	1804	1961	2089
1.1 GHz	-20	6	21	17	4	-20	-10	-6	-1	-7	13	1	11	-8
1.1 GHz	-0.69	0.19	0.70	0.59	0.15	-0.67	-0.33	-0.20	-0.03	-0.24	0.44	0.02	0.36	-0.29
Flatness +/-dB	0.7	0.8	0.6	0.4	0.4	0.2	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.4

RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

