



**TYPICAL CHARACTERISTICS
ON
SDLVA-2D5G4D9G-45-55MV**

**PMI MODEL NUMBER SDLVA-2D5G4D9G-45-55MV SUCCESSIVE
DETECTION LOG VIDEO AMPLIFIER OPERATING OVER THE
2.5 TO 4.9 GHZ FREQUENCY RANGE**



APRIL 10, 2018

DESIGNED BY: John Merriner

TESTED AND REPORTED BY: John Merriner



**TYPICAL CHARACTERISTICS
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PRODUCT FEATURE

DESCRIPTION

PMI MODEL SDLVA-2D5G4D9G-45-55MV IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER OPERATING OVER THE 2.5 TO 4.9 GHz FREQUENCY RANGE.

SPECIFICATIONS

- FREQUENCY RANGE — 2.5 GHz TO 4.9 GHz
- DYNAMIC RANGE — -55 TO -10 dBm
- INPUT RF POWER HANDLING — +20 dBm CW MAX
- DUTY CYCLE — 0 TO 100 %
- PULSE WIDTH — 100 ns TO CW
- VSWR — 2.0:1 AT J1 AND J2 (50 OHMS ±2 NOMINAL)
- RF GAIN — 53.0 ±3dB OVER ALL CONDITIONS
- RF SATURATED POWER — +15 dBm RF OUTPUT MAX
1 dB GAIN COMPRESSION TO BE +6 dBm MIN
- TANGENTIAL SENSITIVITY — -70 dBm MIN (J3)
- LOG VIDEO LOAD IMP. — 50 ±5 OHMS
- LOG VIDEO LINEARITY — +1.5 dB MAX OVER INPUT DYNAMIC RANGE
- LOG SLOPE — 55.5 ±5 % mV/dB
- STABILITY — NO SPURIOUS SIGNAL OUTPUTS, IN-BAND OR OUT-OF BAND, WITH NO RF APPLIED, AT LABEL VOLTAGES, WITH ANY MISMATCH AT ANY PHASE AT THE INPUT AND THE OUTPUT SIMULTANEOUSLY.
- ABSOLUTE LOG VIDEO OUTPUT — 0.0 ±0.075 WITH RF INPUT OF -55 dBm
- AVG LOG VIDEO OUTPUT — 0.0V ±0.05V WITH RF INPUT OF -55 dBm
2.5V ±0.05V WITH RF INPUT OF -10 dBm
- FLATNESS — <4.0 dB @ -55 TO -45 dBm INPUT
<6.0 dB @ -45 TO -10 dBm INPUT
- NO SIG OUTPUT VOLTAGE — -100mV TO -300mV
- RISE TIME — 20 ns (10 TO 90%)
- FALL/RECOVERY TIME — 50 ns (90 TO 10%)
- PULSE DELAY — 90% RF INPUT TO 90% LOG VIDEO PULSE @ <35 ns
- LOG VIDEO OUTPUT CW & PULSE — LEADING EDGE OVERSHOOT 1.0 dB UP TO -35 dBm
2.5 dB FROM -35 TO -10 dBm
35 ns TO RECOVER WITHIN 0.6 dB OF FINAL VALUE
- DC POWER — +15 Vdc ±3%, 200mV P-P RIPPLE @500 mA MAX
-15 Vdc ±3%, 200mV P-P RIPPLE @180 mA MAX
- WEIGHT — 8.0 oz. MAX
- FINISH — BLACK PAINT OVER NICKEL PLATE

OCTAVE BAND	FREQUENCY (Hz)	LEVEL (dB)
16	102.0	
31.5	104.0	
63	106.0	
125	105.0	
250	115.0	
500	122.0	
1000	126.0	
2000	126.0	
OASPL	130.0	

TABLE 1

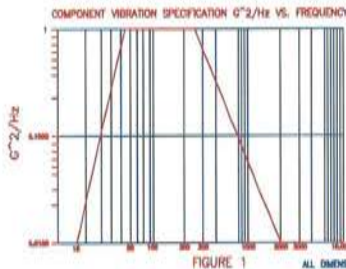


FIGURE 1

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX .0005
XXX .0010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	8/15/17	

ENVIRONMENTAL RATINGS:

- TEMPERATURE: — -20°C TO +85°C (OPERATING)
-65°C TO +95°C (STORAGE)
- ALTITUDE: — 1300 TO +35,000 FT PER MIL-STD-202F METHOD 105C
- THERMAL SHOCK: — PER MIL-STD-202F, METHOD 107G, TEST CONDITION A-1
- HUMIDITY: — PER MIL-STD-202F, METHOD 103B, TEST CONDITION A
- FUNGUS: — PER MIL-STD-810C, METHOD 508.2
- SALT FOG: — PER MIL-STD-202F, METHOD 1010, TEST CONDITION B
- SAND AND DUST: — PER MIL-STD-202F, METHOD 110A
- FLUID EXPOSURE: — RESISTANT TO AND SHALL NOT FORM TOXIC BY-PRODUCTS WHEN EXPOSED TO:
A) ISOPROPYL ALCOHOL (TI-1-735)
B) 1,1,1 TRICHLOROETHANE, VAPOR DEGREASING SOLVENT (MIL-T-81533)
C) FREON TF
D) METHANOL (O-M-232)
E) COOLANOL 20, 25, AND 25R
F) HYDRAULIC OIL (MIL-H-5606 OR 87257)
G) WATER
- SHOCK: — PER MIL-STD-202F, METHOD 213B, TEST CONDITION J
- ACOUSTIC NOISE: — 60 MINUTE TEST IN NORMAL MOUNTING CONFIGURATION, SURVIVAL USE TABLE 1
- RANDOM VIBRATION: — PER MIL-STD-202F, METHOD 214A, PER THE VIBRATION CURVE IN FIGURE 1
- SINUSOIDAL SEARCH/DWELL: — UNIT TO MEET ELECTRICAL REQUIREMENTS DURING/AFTER TEST DESCRIBED IN TABLE 2
RESONANCE SEARCH IS FOR A DURATION OF 15 MINUTES PER AXIS
DURATION OF THE DWELL TEST SHALL BE AT 133 Hz
AT AN INPUT LEVEL CORRESPONDING TO THE LEVEL SPECIFIED
DWELL TIME SHALL BE ONE MILLION CYCLES OR TWO HOURS
IN EACH OF THE THREE MUTUALLY PERPENDICULAR AXES.
- ALTITUDE: — PER MIL-STD-202F, METHOD 212A, TEST CONDITION A, AT A 20G LEVEL
- EXPLOSIVE ATMOSPHERE: — PER MIL-STD-810C, METHOD 511.1, PROCEDURES I THROUGH III
- ELECTROMAGNETIC INTERFERENCE: — PARAGRAPH 5.016 OF MIL-STD-461 AND THE REQUIREMENTS IDENTIFIED IN RE102

DISPLACEMENT (INCHES DOUBLE AMPLITUDE)	.01	.01	3.0E-05
FREQUENCY	5	54	1000

TABLE 2

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

4921 ROBERT MATHEWS PARKWAY, SUITE 1
EL DORADO HILLS, CA 95762
TEL: 916-542-1401 FAX: 916-265-2597
WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com



ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE		REV.
DESIGN	JM	8-15-17	PRODUCT FEATURE SDLVA-2D5G4D9G-45-55MV		1
CHECKED			SIZE	FORM NO.	DWG NO.
ISSUED			A	71A34	PRELIMINARY
			SCALE	N:5	SHEET 1 OF 2

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



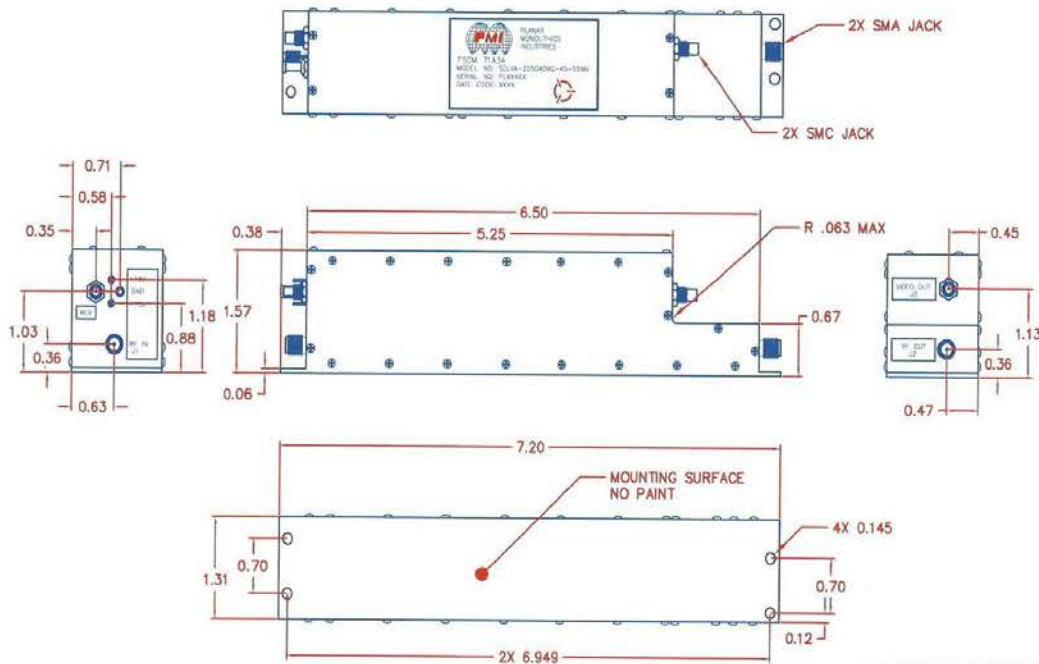
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REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
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DRAWN	JM	8/15/17	PRODUCT FEATURE SDLVA-2D5G4D9G-45-55MV		
CHECKED			SIZE	FIG. NO.	REV.
ISSUED			A	71A34	1
			DWG. NO.	PRELIMINARY	
			SCALE	N:S	SHEET 2 OF 2

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX ±0.010
XXXX ±0.002



**TYPICAL CHARACTERISTICS
ON
SDLVA-2D5G4D9G-45-55MV**

SUMMARY TEST DATA

REF.	NOMENCLATURE	VALUE	TOL	UNITS	+25° C
SCOPE	ESS DATA	N/A	N/A	N/A	SEE ATTACHED DATA
4.1	Dimensions	N/A	N/A	N/A	PASS / FAIL
4.2	Marking	N/A	N/A	N/A	PASS / FAIL
4.3	DC Power @+/-15VDC	+500	MAX	mA	+420
		-200		mA	-70
4.4	Input VSWR	2.0:1	MAX	1.4:1	GRAPH 1
4.4	Output VSWR	2.0:1	MAX	1.177:1	GRAPH 2
4.5	Log linearity	N/A	+/-1.5	+0.63 / -0.83 dB	Graph 3
4.5	Log slope	55.5	+/-5 %	54.6/56mV/dB	Graph 3
4.5	Absolute Log Video Output Voltage @-55dBm	0.0	+/-0.075	V	+0.025 / -0.034
4.5	Average Log Video Output Voltage @ -55dBm	0.0	+/-0.05	V	-0.002
4.5	Average Log Video Output Voltage @ -10dBm	2.5	+/-0.05	V	2.454
4.5	Flatness from -55 to -45dBm	4.0	p-p	dB	1.6
4.5	Flatness from -45 to -10dBm	6.0	p-p	dB	1.6
4.6	No Signal Output Voltage	-100 to -300	N/A	mV	-155
4.7	Log Video Output Rise Time	20	MAX	ns	19.5



**TYPICAL CHARACTERISTICS
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SUMMARY TEST DATA

4.8	Pulse Overshoot @ -10dBm	138.7	MAX	mV	35
4.8	Pulse Overshoot @ -35dBm	55.5	MAX	mV	0
4.9	Pulse Fall Time and Recovery Time	50	MAX	ns	25
4.10	Log Video Output Pulse Delay	35	MAX	ns	16
4.11	RF Saturated Output Power	+15	MAX	dBm	11.2



TYPICAL CHARACTERISTICS ON SDLVA-2D5G4D9G-45-55MV

Frequency Flatness, LOG Dynamic Range, LOG Slope and LOG Linearity 25 Degrees C

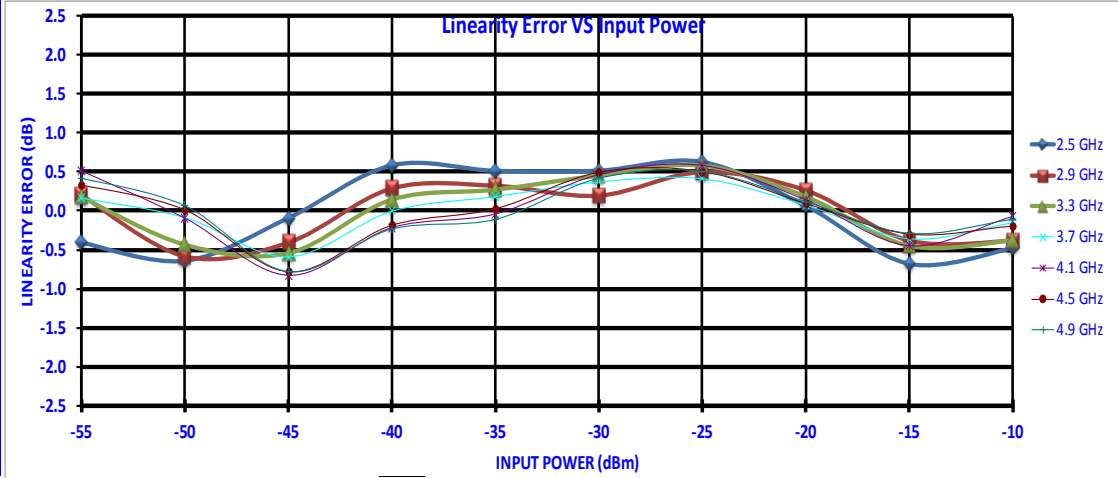
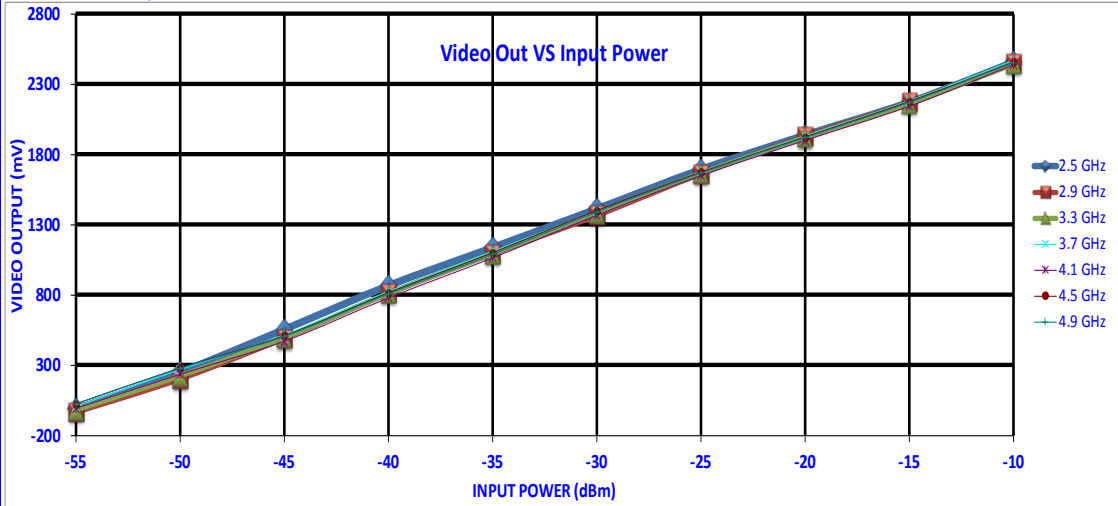
LOG TRANSFER WITH FREQUENCY		GRAPH # 3										Page #1		
MODEL: SDLVA-2D5G4D9G-60-50MV												 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway, Suite 1 El Dorado Hills, CA 95762 Phone: 916-542-1401 Fax: 301-662-		
TESTED BY: JOHNM														
DATE: 3-10-18														
SERIAL NO: #PL22446		VOS= -155MV												
Test Temp: +25C														
Frequency		-55 -50 -45 -40 -35 -30 -25 -20 -15 -10										RF Input Power (dBm)		
2.5 GHz	INTERCEPT (mV)	-12 250 555 867 1138 1413 1694 1938 2172 2458										Measured Value (mV)		
	SLOPE (mV/dB)	-22 -35 -5 32 28 28 34 4 -37 -26										Error (mV)		
		-0.41 -0.64 -0.09 0.58 0.51 0.51 0.63 0.06 -0.68 -0.48										LINEARITY ERROR (dB)		
2.9 GHz	INTERCEPT (mV)	-34 202 492 811 1093 1366 1663 1930 2174 2454										Measured Value (mV)		
	SLOPE (mV/dB)	11 -33 -23 16 18 11 28 15 -21 -22										Error (mV)		
		0.20 -0.59 -0.41 0.29 0.32 0.19 0.50 0.26 -0.38 -0.38										LINEARITY ERROR (dB)		
3.3 GHz	INTERCEPT (mV)	-18 225 496 811 1095 1382 1666 1921 2163 2444										Measured Value (mV)		
	SLOPE (mV/dB)	10 -24 -30 8 15 25 32 10 -25 -21										Error (mV)		
		0.18 -0.43 -0.54 0.14 0.27 0.45 0.58 0.18 -0.45 -0.38										LINEARITY ERROR (dB)		
3.7 GHz	INTERCEPT (mV)	7 269 517 825 1111 1397 1675 1932 2184 2471										Measured Value (mV)		
	SLOPE (mV/dB)	9 -5 -33 0 10 20 23 4 -20 -8										Error (mV)		
		0.16 -0.09 -0.59 0.00 0.18 0.37 0.41 0.07 -0.36 -0.15										LINEARITY ERROR (dB)		
4.1 GHz	INTERCEPT (mV)	-6 236 471 780 1065 1368 1650 1901 2144 2440										Measured Value (mV)		
	SLOPE (mV/dB)	28 -5 -46 -12 -2 25 32 8 -25 -4										Error (mV)		
		0.51 -0.09 -0.83 -0.22 -0.04 0.46 0.58 0.14 -0.45 -0.07										LINEARITY ERROR (dB)		
4.5 GHz	INTERCEPT (mV)	25 281 511 817 1102 1401 1675 1926 2178 2457										Measured Value (mV)		
	SLOPE (mV/dB)	18 1 -43 -10 1 27 28 5 -16 -11										Error (mV)		
		0.33 0.01 -0.78 -0.19 0.03 0.49 0.50 0.09 -0.30 -0.20										LINEARITY ERROR (dB)		
4.9 GHz	INTERCEPT (mV)	25 279 506 809 1089 1391 1669 1921 2172 2455										Measured Value (mV)		
	SLOPE (mV/dB)	23 4 -43 -13 -6 23 28 6 -16 -6										Error (mV)		
		0.42 0.07 -0.78 -0.23 -0.11 0.42 0.51 0.12 -0.29 -0.11										LINEARITY ERROR (dB)		
Flatness +/-dB		0.5 0.7 0.8 0.8 0.7 0.4 0.4 0.3 0.4 0.3												
Slope Avg(mv/dB)		55.1												
Slope Min(mv/dB)		54.6												
Slope Max(mv/dB)		56.0												
V Out Min @ -55dBm		-0.034												
V Out Max @ -55dBm		0.025												
V Avg @ -55dBm		-0.002												
V Avg @ -10dBm		2.454												
Max Delta -55 to -45dBm		1.52 dB												
Max Delta -45 to -10dBm		1.58 dB												



TYPICAL CHARACTERISTICS ON SDLVA-2D5G4D9G-45-55MV

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-60-50MV
SERIAL NO: #PL22446
Test Temp: +25C

GRAPH # 3





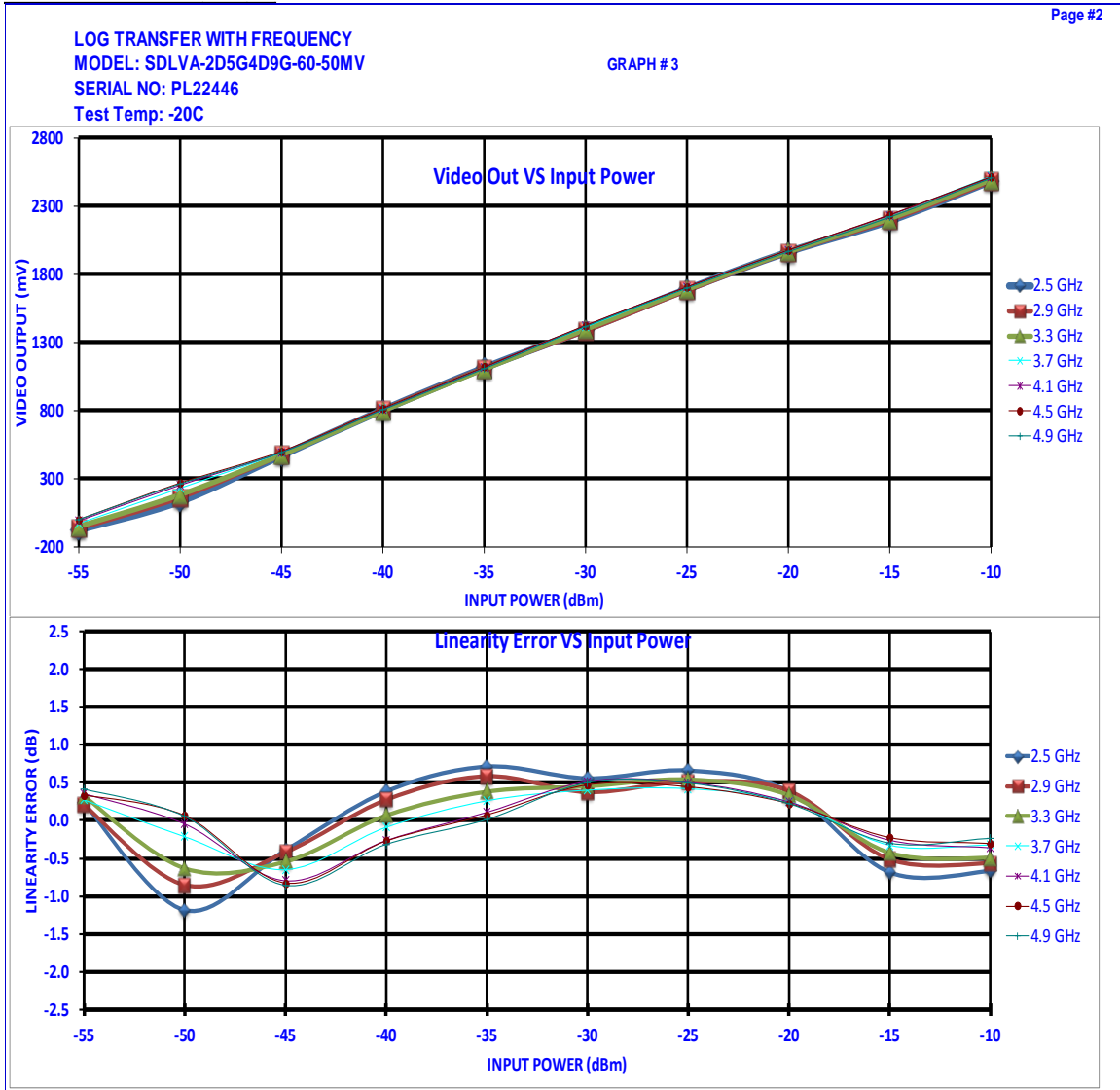
TYPICAL CHARACTERISTICS ON SDLVA-2D5G4D9G-45-55MV

Frequency Flatness, LOG Dynamic Range, LOG Slope and LOG Linearity -20 Degrees C

LOG TRANSFER WITH FREQUENCY MODEL: SDLVA-2D5G4D9G-60-50MV TESTED BY: JOHNM DATE: 4-10-18 SERIAL NO: PL22446 Test Temp: -20C			GRAPH # 3	 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway, Suite 1 El Dorado Hills, CA 95762 Phone: 916-542-1401 Fax: 301-662-	Page #1																																					
			VOS=-174MV																																							
Frequency			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f2f2f2;">-55</td><td style="background-color: #f2f2f2;">-50</td><td style="background-color: #f2f2f2;">-45</td><td style="background-color: #f2f2f2;">-40</td><td style="background-color: #f2f2f2;">-35</td><td style="background-color: #f2f2f2;">-30</td><td style="background-color: #f2f2f2;">-25</td><td style="background-color: #f2f2f2;">-20</td><td style="background-color: #f2f2f2;">-15</td><td style="background-color: #f2f2f2;">-10</td> </tr> </table>	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	RF Input Power (dBm)																												
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2.5 GHz	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">INTERCEPT (mV)</td><td style="background-color: #e0e0e0;">3102</td> </tr> <tr> <td style="background-color: #e0e0e0;">SLOPE (mV/dB)</td><td style="background-color: #e0e0e0;">58</td> </tr> </table>	INTERCEPT (mV)	3102	SLOPE (mV/dB)	58		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">-75</td><td style="background-color: #e0e0e0;">133</td><td style="background-color: #e0e0e0;">469</td><td style="background-color: #e0e0e0;">804</td><td style="background-color: #e0e0e0;">1113</td><td style="background-color: #e0e0e0;">1394</td><td style="background-color: #e0e0e0;">1690</td><td style="background-color: #e0e0e0;">1964</td><td style="background-color: #e0e0e0;">2192</td><td style="background-color: #e0e0e0;">2483</td> </tr> <tr> <td style="background-color: #e0e0e0;">13</td><td style="background-color: #e0e0e0;">-69</td><td style="background-color: #e0e0e0;">-23</td><td style="background-color: #e0e0e0;">22</td><td style="background-color: #e0e0e0;">41</td><td style="background-color: #e0e0e0;">32</td><td style="background-color: #e0e0e0;">38</td><td style="background-color: #e0e0e0;">22</td><td style="background-color: #e0e0e0;">-40</td><td style="background-color: #e0e0e0;">-39</td> </tr> <tr> <td style="background-color: #e0e0e0;">0.23</td><td style="background-color: #e0e0e0;">-1.18</td><td style="background-color: #e0e0e0;">-0.39</td><td style="background-color: #e0e0e0;">0.38</td><td style="background-color: #e0e0e0;">0.71</td><td style="background-color: #e0e0e0;">0.56</td><td style="background-color: #e0e0e0;">0.66</td><td style="background-color: #e0e0e0;">0.38</td><td style="background-color: #e0e0e0;">-0.68</td><td style="background-color: #e0e0e0;">-0.67</td> </tr> </table>	-75	133	469	804	1113	1394	1690	1964	2192	2483	13	-69	-23	22	41	32	38	22	-40	-39	0.23	-1.18	-0.39	0.38	0.71	0.56	0.66	0.38	-0.68	-0.67	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="background-color: #e0e0e0;">Measured Value (mV)</td></tr> <tr><td style="background-color: #e0e0e0;">Error (mV)</td></tr> <tr><td style="background-color: #e0e0e0;">LINEARITY ERROR (dB)</td></tr> </table>		Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
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2.9 GHz	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">INTERCEPT (mV)</td><td style="background-color: #e0e0e0;">3093</td> </tr> <tr> <td style="background-color: #e0e0e0;">SLOPE (mV/dB)</td><td style="background-color: #e0e0e0;">57.6</td> </tr> </table>	INTERCEPT (mV)	3093	SLOPE (mV/dB)	57.6		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">-64</td><td style="background-color: #e0e0e0;">163</td><td style="background-color: #e0e0e0;">476</td><td style="background-color: #e0e0e0;">804</td><td style="background-color: #e0e0e0;">1110</td><td style="background-color: #e0e0e0;">1386</td><td style="background-color: #e0e0e0;">1682</td><td style="background-color: #e0e0e0;">1963</td><td style="background-color: #e0e0e0;">2199</td><td style="background-color: #e0e0e0;">2484</td> </tr> <tr> <td style="background-color: #e0e0e0;">12</td><td style="background-color: #e0e0e0;">-49</td><td style="background-color: #e0e0e0;">-24</td><td style="background-color: #e0e0e0;">16</td><td style="background-color: #e0e0e0;">34</td><td style="background-color: #e0e0e0;">22</td><td style="background-color: #e0e0e0;">30</td><td style="background-color: #e0e0e0;">23</td><td style="background-color: #e0e0e0;">-29</td><td style="background-color: #e0e0e0;">-33</td> </tr> <tr> <td style="background-color: #e0e0e0;">0.21</td><td style="background-color: #e0e0e0;">-0.85</td><td style="background-color: #e0e0e0;">-0.42</td><td style="background-color: #e0e0e0;">0.27</td><td style="background-color: #e0e0e0;">0.59</td><td style="background-color: #e0e0e0;">0.38</td><td style="background-color: #e0e0e0;">0.51</td><td style="background-color: #e0e0e0;">0.39</td><td style="background-color: #e0e0e0;">-0.51</td><td style="background-color: #e0e0e0;">-0.56</td> </tr> </table>	-64	163	476	804	1110	1386	1682	1963	2199	2484	12	-49	-24	16	34	22	30	23	-29	-33	0.21	-0.85	-0.42	0.27	0.59	0.38	0.51	0.39	-0.51	-0.56	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="background-color: #e0e0e0;">Measured Value (mV)</td></tr> <tr><td style="background-color: #e0e0e0;">Error (mV)</td></tr> <tr><td style="background-color: #e0e0e0;">LINEARITY ERROR (dB)</td></tr> </table>		Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
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TYPICAL CHARACTERISTICS ON SDLVA-2D5G4D9G-45-55MV





TYPICAL CHARACTERISTICS ON SDLVA-2D5G4D9G-45-55MV

Frequency Flatness, LOG Dynamic Range, LOG Slope and LOG Linearity +85 Degrees C

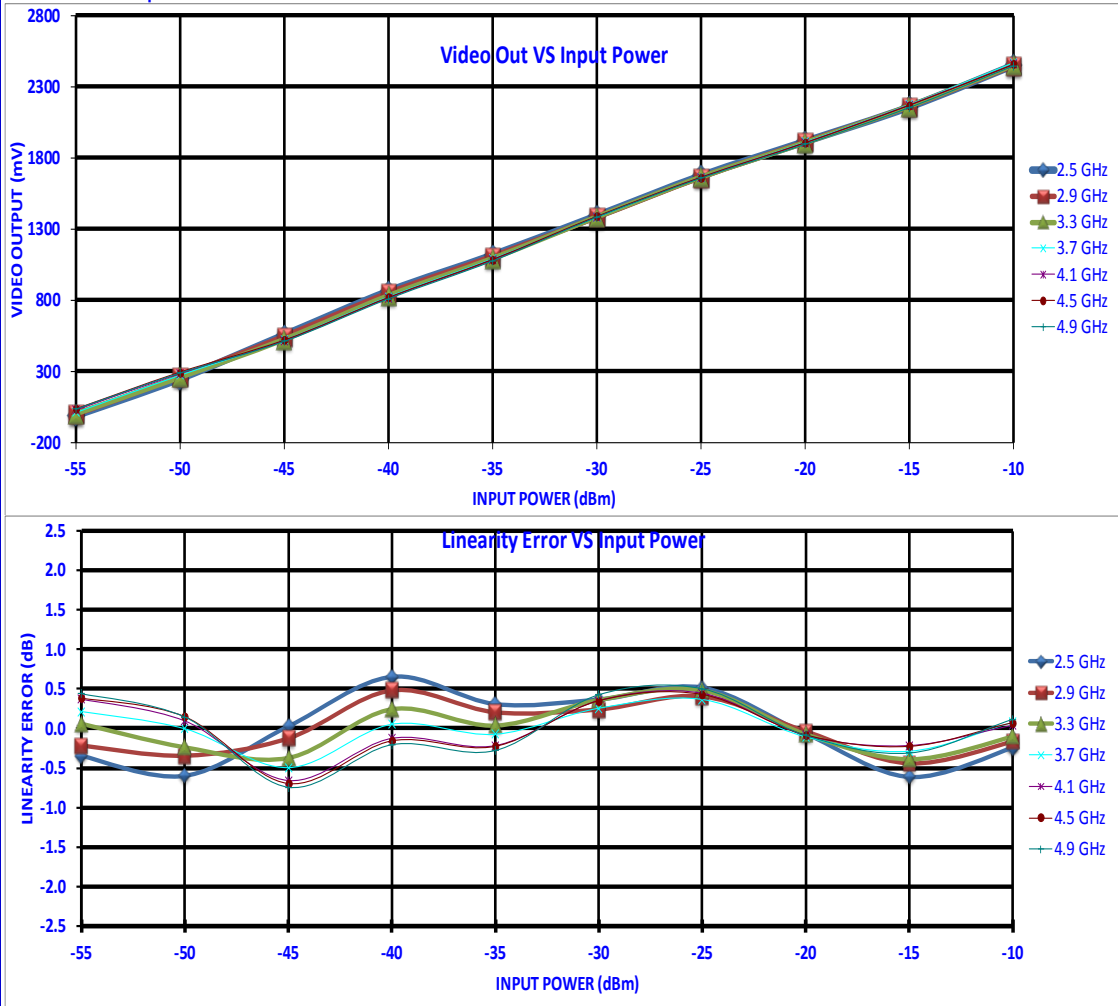
LOG TRANSFER WITH FREQUENCY		GRAPH # 3										Page #1		
MODEL: SDLVA-2D5G4D9G-60-50MV												 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway, Suite 1 El Dorado Hills, CA 95762 Phone: 916-542-1401 Fax: 301-662-		
TESTED BY: JOHNM														
DATE: 4-10-18														
SERIAL NO: PL22446														
Test Temp: +85C		VOS=-149MV												
Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	RF Input Power (dBm)		
2.5 GHz	INTERCEPT (mV) 3010	-10	249	556	863	1117	1393	1674	1915	2158	2451	Measured Value (mV)		
	SLOPE (mV/dB) 54.6	-19	-33	1	36	17	20	28	-4	-33	-13	Error (mV)		
		-0.35	-0.60	0.03	0.65	0.31	0.37	0.52	-0.07	-0.61	-0.24	LINEARITY ERROR (dB)		
		x												
2.9 GHz	INTERCEPT (mV) 3002	-2	263	547	852	1109	1383	1664	1912	2162	2449	Measured Value (mV)		
	SLOPE (mV/dB) 54.4	-12	-19	-7	26	11	13	22	-2	-24	-9	Error (mV)		
		-0.22	-0.34	-0.12	0.48	0.20	0.24	0.41	-0.04	-0.44	-0.17	LINEARITY ERROR (dB)		
		x												
3.3 GHz	INTERCEPT (mV) 3005	2	259	525	832	1094	1385	1665	1908	2164	2453	Measured Value (mV)		
	SLOPE (mV/dB) 54.7	3	-13	-20	13	2	20	26	-4	-21	-6	Error (mV)		
		0.06	-0.24	-0.37	0.24	0.04	0.36	0.48	-0.07	-0.39	-0.10	LINEARITY ERROR (dB)		
		x												
3.7 GHz	INTERCEPT (mV) 3013	11	273	520	824	1091	1383	1663	1911	2175	2469	Measured Value (mV)		
	SLOPE (mV/dB) 54.8	12	0	-27	3	-4	14	20	-6	-16	4	Error (mV)		
		0.21	0.00	-0.50	0.05	-0.07	0.26	0.37	-0.11	-0.29	0.08	LINEARITY ERROR (dB)		
		x												
4.1 GHz	INTERCEPT (mV) 3000	28	285	516	817	1084	1387	1664	1907	2172	2458	Measured Value (mV)		
	SLOPE (mV/dB) 54.4	20	5	-36	-7	-12	19	24	-5	-12	2	Error (mV)		
		0.37	0.09	-0.66	-0.13	-0.22	0.35	0.45	-0.09	-0.22	0.04	LINEARITY ERROR (dB)		
		x												
4.5 GHz	INTERCEPT (mV) 2994	37	295	520	820	1087	1389	1664	1907	2170	2457	Measured Value (mV)		
	SLOPE (mV/dB) 54.2	21	8	-38	-8	-12	19	23	-4	-12	4	Error (mV)		
		0.38	0.15	-0.70	-0.16	-0.23	0.35	0.43	-0.08	-0.23	0.07	LINEARITY ERROR (dB)		
		x												
4.9 GHz	INTERCEPT (mV) 2981	35	289	511	810	1076	1384	1658	1896	2154	2447	Measured Value (mV)		
	SLOPE (mV/dB) 54	24	8	-40	-11	-15	23	27	-5	-17	6	Error (mV)		
		0.44	0.14	-0.74	-0.21	-0.28	0.43	0.50	-0.09	-0.31	0.12	LINEARITY ERROR (dB)		
		x												
Flatness +/-dB		0.4	0.4	0.4	0.5	0.4	0.1	0.1	0.2	0.2	0.2			
Slope Avg(mv/dB)	54.4													
Slope Min(mv/dB)	54.0													
Slope Max(mv/dB)	54.8													
V Out Min @ -55dBm	-0.01													
V Out Max @ -55dBm	0.037													
V Avg @ -55dBm	0.014													
V Avg @ -10dBm	2.455													
Max Delta -55 to -45dBm	0.86 dB													
Max Delta -45 to -10dBm	0.97 dB													



TYPICAL CHARACTERISTICS ON SDLVA-2D5G4D9G-45-55MV

MODEL: SDLVA-2D5G4D9G-60-50MV
SERIAL NO: PL22446
Test Temp: +85C

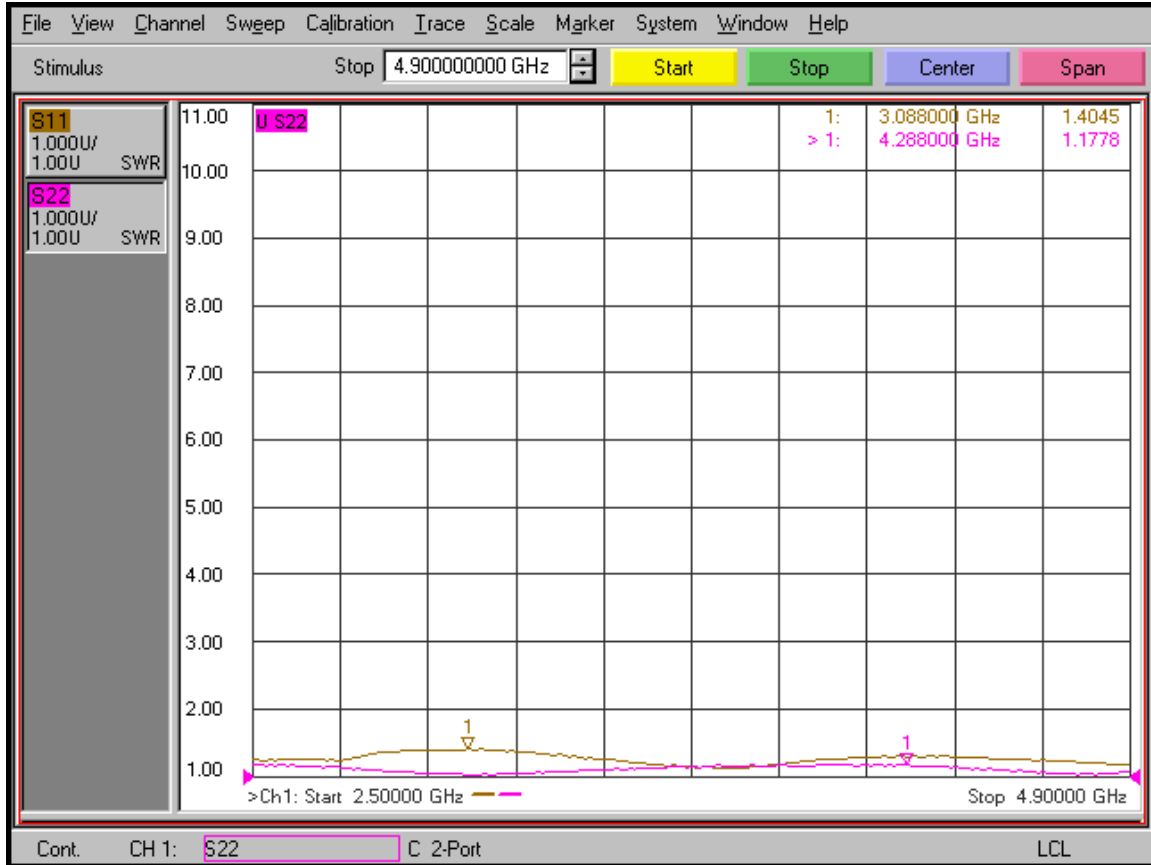
GRAPH # 3





**TYPICAL CHARACTERISTICS
ON
SDLVA-2D5G4D9G-45-55MV**

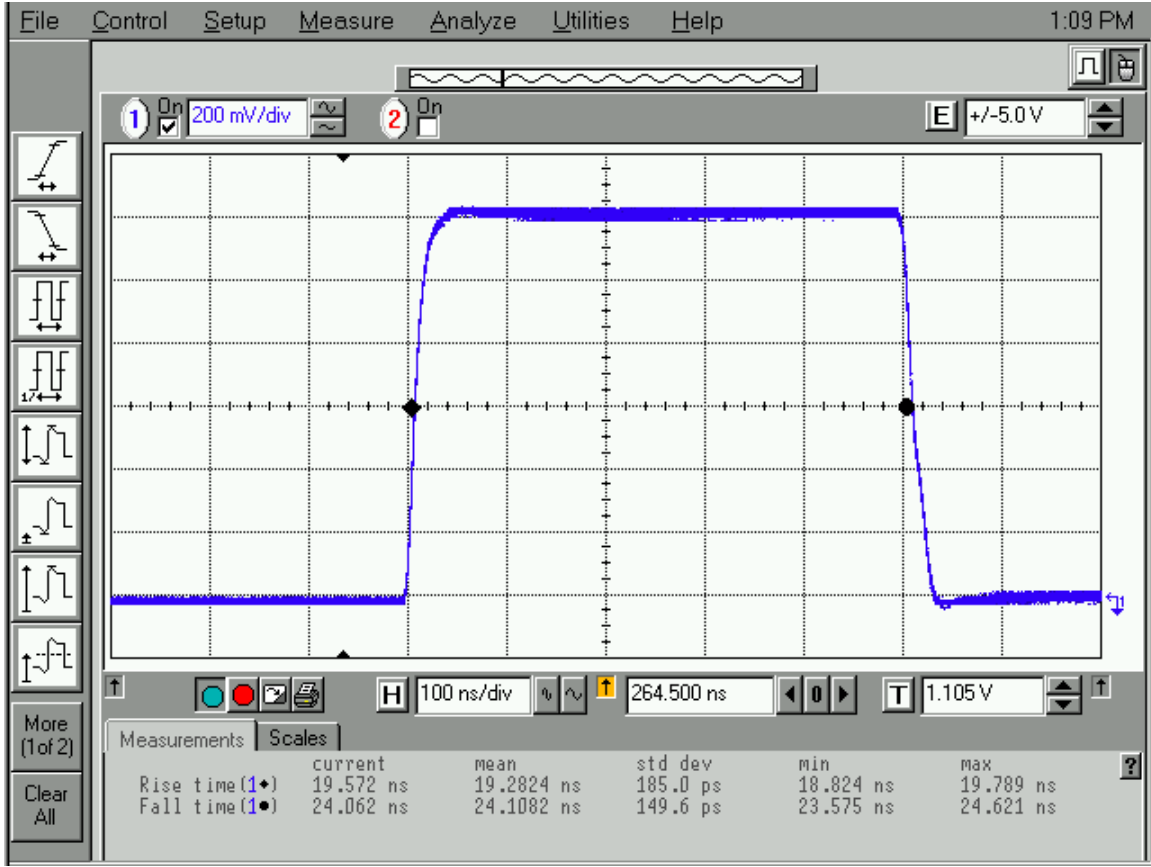
VSWR INPUT & OUTPUT





**TYPICAL CHARACTERISTICS
ON
SDLVA-2D5G4D9G-45-55MV**

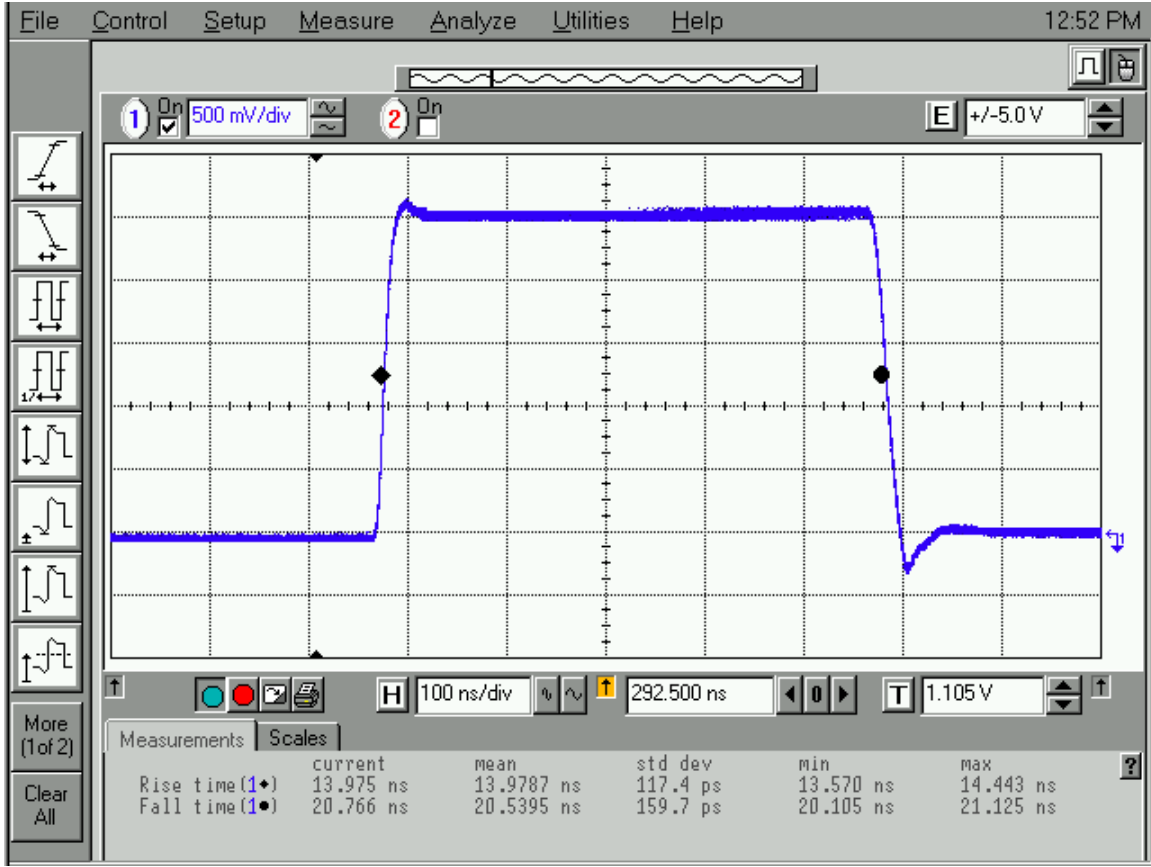
-35dBm RISE TIME /FALL TIME





**TYPICAL CHARACTERISTICS
ON
SDLVA-2D5G4D9G-45-55MV**

-10dBm RISE TIME/ FALL TME





**TYPICAL CHARACTERISTICS
ON
SDLVA-2D5G4D9G-45-55MV**

PULSE DELAY TIME 90% RF TO 90%VIDEO

