



**SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF**

PL48066/2438

Customer: _____ Tested By: DA
SO No: _____ Temperature: +25°C , -54°C, +95°C
Model No: DLVA-8G10G-75-50-SFF Date: 09/19/24
Serial No: PL48066/2438 Drawing No: 27631110 Rev: A3

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	8 GHz – 10 GHz	8 GHz to 10 GHz	<i>PMI</i> <i>QA3</i>
2	Flatness	± 1.2 dB	±0.9 dB (See Plots)	
3	TSS	-78dBm	-79 dBm	
4	Log Dynamic Range	-75 to 0dBm	-75 TO 0dBm (See Plots)	
5	Log Slope	50mV/dB ± 4mV/dB	50mV/dB±3.2 mV/dB (See Plots)	
6	Log Linearity	± 1.8 dB Max.	±0.92 dB (See Plots)	
7	DC Offset	50mV ± 50mV	50mV ± 49mV	
8	Rise Time	30 ns Max.	19.3ns	
9	Fall Time	150ns	<100ns	
10	Recovery Time	500 ns for 10.0 us PW	100ns	
11	DC Supply	+15VDC @ 350 mA -15VDC @ 100 mA	161mA 64mA	

QA/QC Approval: *K. Khurana* Date: 9-23-24



SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL48066/2438

LOG TRANSFER @ +25C

LOG TRANSFER WITH FREQUENCY MODEL: DLVA-8G10G-75-50-SFF TESTED BY: DA DATE: 09/19/2024 SERIAL NO: PL48066 Test Temp: +25C													Output Vos= 0.088													 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway, Suite 1 El Dorado Hills, CA 95762 Phone: 916-642-1401 Fax: 301-662-1731 Email: sales@pmi-rf.com www.pmi-rf.com																	
Frequency		<table><tr><td>-75</td><td>-70</td><td>-65</td><td>-60</td><td>-55</td><td>-50</td><td>-45</td><td>-40</td><td>-35</td><td>-30</td><td>-25</td><td>-20</td><td>-15</td><td>-10</td><td>-5</td><td>0</td></tr></table>																								-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0																												
8 GHz	INTERCEPT (m)	<table><tr><td>481</td><td>726</td><td>987</td><td>1206</td><td>1428</td><td>1714</td><td>1975</td><td>2217</td><td>2477</td><td>2769</td><td>3038</td><td>3303</td><td>3536</td><td>3789</td><td>4052</td><td>4324</td></tr></table>															481	726	987	1206	1428	1714	1975	2217	2477	2769	3038	3303	3536	3789	4052	4324	Measured Value (mV)										
	481	726	987	1206	1428	1714	1975	2217	2477	2769	3038	3303	3536	3789	4052	4324																											
	SLOPE (mV/dB)	<table><tr><td>35</td><td>23</td><td>27</td><td>-12</td><td>-47</td><td>-19</td><td>-15</td><td>-31</td><td>-28</td><td>6</td><td>18</td><td>26</td><td>1</td><td>2</td><td>17</td><td>17</td></tr></table>															35	23	27	-12	-47	-19	-15	-31	-28	6	18	26	1	2	17	17	Error (mV)										
35	23	27	-12	-47	-19	-15	-31	-28	6	18	26	1	2	17	17																												
		<table><tr><td>0.69</td><td>0.45</td><td>0.52</td><td>-0.23</td><td>-0.92</td><td>-0.36</td><td>-0.30</td><td>-0.60</td><td>-0.55</td><td>0.13</td><td>0.35</td><td>0.50</td><td>0.02</td><td>-0.06</td><td>0.04</td><td>0.33</td></tr></table>															0.69	0.45	0.52	-0.23	-0.92	-0.36	-0.30	-0.60	-0.55	0.13	0.35	0.50	0.02	-0.06	0.04	0.33	LINEARITY ERROR (dB)										
0.69	0.45	0.52	-0.23	-0.92	-0.36	-0.30	-0.60	-0.55	0.13	0.35	0.50	0.02	-0.06	0.04	0.33																												
		x																																									
9 GHz	INTERCEPT (m)	<table><tr><td>525</td><td>772</td><td>1024</td><td>1240</td><td>1464</td><td>1751</td><td>2012</td><td>2240</td><td>2483</td><td>2726</td><td>3014</td><td>3288</td><td>3525</td><td>3785</td><td>4054</td><td>4293</td></tr></table>															525	772	1024	1240	1464	1751	2012	2240	2483	2726	3014	3288	3525	3785	4054	4293	Measured Value (mV)										
	525	772	1024	1240	1464	1751	2012	2240	2483	2726	3014	3288	3525	3785	4054	4293																											
	SLOPE (mV/dB)	<table><tr><td>30</td><td>25</td><td>25</td><td>-12</td><td>-40</td><td>-5</td><td>3</td><td>-21</td><td>-30</td><td>-40</td><td>-4</td><td>18</td><td>2</td><td>10</td><td>27</td><td>13</td></tr></table>															30	25	25	-12	-40	-5	3	-21	-30	-40	-4	18	2	10	27	13	Error (mV)										
30	25	25	-12	-40	-5	3	-21	-30	-40	-4	18	2	10	27	13																												
		<table><tr><td>0.60</td><td>0.49</td><td>0.49</td><td>-0.23</td><td>-0.79</td><td>-0.11</td><td>0.06</td><td>-0.42</td><td>-0.60</td><td>-0.79</td><td>-0.08</td><td>0.35</td><td>0.04</td><td>0.20</td><td>0.53</td><td>0.26</td></tr></table>															0.60	0.49	0.49	-0.23	-0.79	-0.11	0.06	-0.42	-0.60	-0.79	-0.08	0.35	0.04	0.20	0.53	0.26	LINEARITY ERROR (dB)										
0.60	0.49	0.49	-0.23	-0.79	-0.11	0.06	-0.42	-0.60	-0.79	-0.08	0.35	0.04	0.20	0.53	0.26																												
		x																																									
10 GHz	INTERCEPT (m)	<table><tr><td>502</td><td>747</td><td>1008</td><td>1236</td><td>1481</td><td>1761</td><td>2015</td><td>2242</td><td>2497</td><td>2785</td><td>3041</td><td>3311</td><td>3549</td><td>3811</td><td>4102</td><td>4379</td></tr></table>															502	747	1008	1236	1481	1761	2015	2242	2497	2785	3041	3311	3549	3811	4102	4379	Measured Value (mV)										
	502	747	1008	1236	1481	1761	2015	2242	2497	2785	3041	3311	3549	3811	4102	4379																											
	SLOPE (mV/dB)	<table><tr><td>31</td><td>18</td><td>22</td><td>-8</td><td>-21</td><td>2</td><td>-2</td><td>-32</td><td>-35</td><td>-24</td><td>-6</td><td>7</td><td>-13</td><td>-8</td><td>25</td><td>44</td></tr></table>															31	18	22	-8	-21	2	-2	-32	-35	-24	-6	7	-13	-8	25	44	Error (mV)										
31	18	22	-8	-21	2	-2	-32	-35	-24	-6	7	-13	-8	25	44																												
		<table><tr><td>0.60</td><td>0.35</td><td>0.42</td><td>-0.15</td><td>-0.40</td><td>0.04</td><td>-0.03</td><td>-0.62</td><td>-0.67</td><td>-0.47</td><td>-0.11</td><td>0.13</td><td>-0.25</td><td>-0.16</td><td>0.48</td><td>0.86</td></tr></table>															0.60	0.35	0.42	-0.15	-0.40	0.04	-0.03	-0.62	-0.67	-0.47	-0.11	0.13	-0.25	-0.16	0.48	0.86	LINEARITY ERROR (dB)										
0.60	0.35	0.42	-0.15	-0.40	0.04	-0.03	-0.62	-0.67	-0.47	-0.11	0.13	-0.25	-0.16	0.48	0.86																												
		x																																									
Flatness +/-dB		<table><tr><td>0.4</td><td>0.5</td><td>0.4</td><td>0.3</td><td>0.5</td><td>0.5</td><td>0.4</td><td>0.2</td><td>0.2</td><td>0.4</td><td>0.3</td><td>0.2</td><td>0.2</td><td>0.3</td><td>0.5</td><td>0.9</td></tr></table>															0.4	0.5	0.4	0.3	0.5	0.5	0.4	0.2	0.2	0.4	0.3	0.2	0.2	0.3	0.5	0.9											
0.4	0.5	0.4	0.3	0.5	0.5	0.4	0.2	0.2	0.4	0.3	0.2	0.2	0.3	0.5	0.9																												



SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL48066/2438

LOG TRANSFER @ -54C

LOG TRANSFER WITH FREQUENCY

MODEL: DLVA-8G10G-75-50-SFF

TESTED BY: DA

DATE: 09/19/2024

SERIAL NO: PL48066

Test Temp: -54C

PLANAR MONOLITHICS INDUSTRIES

4921 Robert J. Mathews Parkway, Suite 1

El Dorado Hills, CA 95782

Phone: 916-542-1401 Fax: 301-662-1731

Email: sales@pmi-rf.com | www.pmi-rf.com

Frequency

Output Vos= 0.091

-75

-70

-65

-60

-55

-50

-45

-40

-35

-30

-25

-20

-15

-10

-5

0

RF Input Power (dBm)

8 GHz

INTERCEPT (m)

4040

SLOPE (mV/dB)

47.8

486

731

962

1166

1375

1619

1882

2108

2361

2609

2841

3093

3331

3550

3811

4072

Measured Value (mV)

27

33

25

-9

-39

-34

-10

-22

-8

1

-6

8

7

-13

9

32

Error (mV)

0.56

0.69

0.53

-0.20

-0.82

-0.71

-0.20

-0.47

-0.17

0.02

-0.12

0.16

0.14

-0.27

0.19

0.66

LINEARITY ERROR (dB)

9 GHz

INTERCEPT (m)

4019

SLOPE (mV/dB)

47.3

497

743

970

1188

1376

1625

1892

2117

2346

2572

2821

3086

3326

3549

3812

4026

Measured Value (mV)

26

35

26

-13

-42

-29

1

-10

-18

-28

-16

13

16

3

29

7

Error (mV)

0.54

0.74

0.54

-0.27

-0.88

-0.61

0.03

-0.21

-0.37

-0.60

-0.33

0.27

0.34

0.06

0.62

0.14

LINEARITY ERROR (dB)

10 GHz

INTERCEPT (m)

4047

SLOPE (mV/dB)

47.8

486

729

983

1178

1401

1638

1895

2118

2381

2599

2841

3097

3337

3557

3832

4074

Measured Value (mV)

20

24

20

-4

-20

-22

-3

-19

-15

-16

-13

5

6

-13

23

27

Error (mV)

0.42

0.51

0.41

-0.09

-0.42

-0.45

-0.07

-0.40

-0.31

-0.33

-0.26

0.10

0.12

-0.27

0.49

0.56

LINEARITY ERROR (dB)

Flatness +/-dB

0.1

0.1

0.1

0.1

0.3

0.2

0.1

0.1

0.2

0.4

0.2

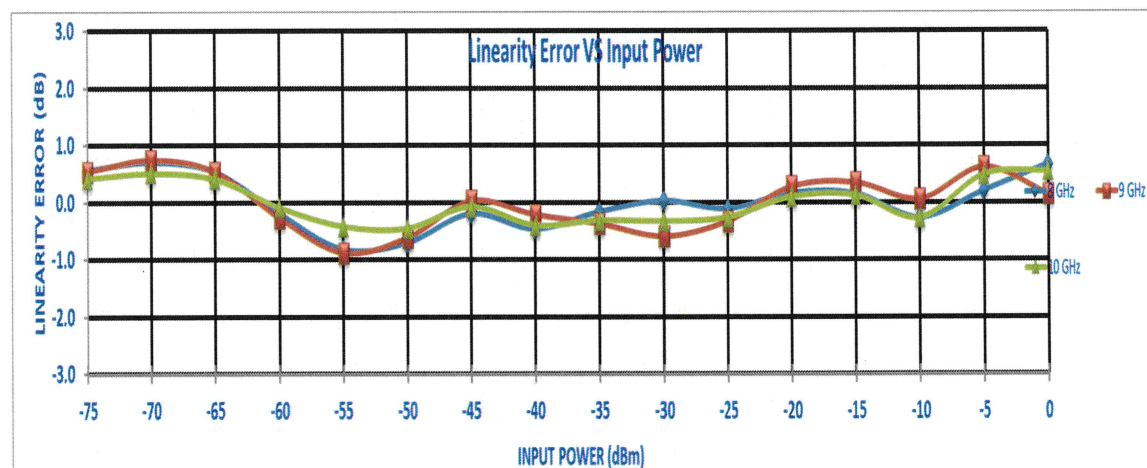
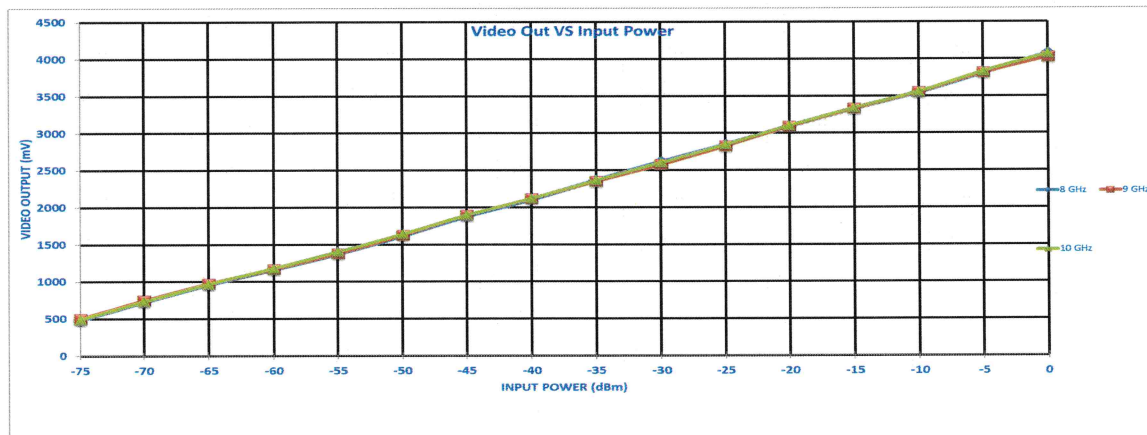
0.1

0.1

0.1

0.2

0.5





SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL48066/2438

LOG TRANSFER @ +95C

LOG TRANSFER WITH FREQUENCY																																						
MODEL: DLVA-8G10G-75-50-SFF																																						
TESTED BY: DA																																						
DATE: 09/19/2024																																						
SERIAL NO: PL48066																																						
Test Temp: +95C													PLANAR MONOLITHICS INDUSTRIES																									
													4921 Robert J. Mathews Parkway, Suite 1																									
													El Dorado Hills, CA 95762																									
													Phone: 916-542-1401 Fax: 301-662-1731																									
													Email: sales@pmi-rf.com www.pmi-rf.com																									
Frequency													Output Vos= 0.022													RF Input Power (dBm)												
													-75 -70 -65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0																									
8 GHz													INTERCEPT (m) 4266													Measured Value (mV)												
													SLOPE (mV/dB) 53													Error (mV)												
																										LINEARITY ERROR (dB)												
													294 583 844 1082 1315 1601 1875 2135 2372 2676 2979 3237 3468 3735 3998 4265																									
													3 27 23 -4 -36 -15 -6 -11 -39 0 38 31 -3 -1 -3 -1																									
													0.06 0.51 0.43 -0.08 -0.68 -0.29 -0.12 -0.21 -0.74 0.00 0.71 0.58 -0.06 -0.03 -0.06 -0.03																									
													×																									
9 GHz													INTERCEPT (m) 4256													Measured Value (mV)												
													SLOPE (mV/dB) 52.2													Error (mV)												
																										LINEARITY ERROR (dB)												
													338 623 886 1117 1353 1647 1910 2160 2392 2656 2964 3230 3469 3739 4009 4259																									
													0 23 25 -5 -30 3 5 -6 -36 -33 14 19 -3 6 15 3																									
													-0.01 0.45 0.48 -0.09 -0.57 0.05 0.09 -0.12 -0.68 -0.63 0.27 0.36 -0.06 0.11 0.28 0.07																									
													×																									
10 GHz													INTERCEPT (m) 4313													Measured Value (mV)												
													SLOPE (mV/dB) 53.7													Error (mV)												
																										LINEARITY ERROR (dB)												
													292 581 842 1088 1340 1643 1900 2152 2390 2686 2989 3253 3489 3768 4054 4344																									
													4 24 17 -5 -22 13 2 -15 -45 -17 18 13 -19 -8 9 31																									
													0.07 0.45 0.32 -0.10 -0.40 0.24 0.03 -0.27 -0.84 -0.32 0.33 0.25 -0.35 -0.15 0.18 0.38																									
													×																									
Flatness +/-dB													0.4 0.4 0.4 0.3 0.4 0.4 0.3 0.2 0.2 0.3 0.2 0.2 0.2 0.3 0.5 0.8																									

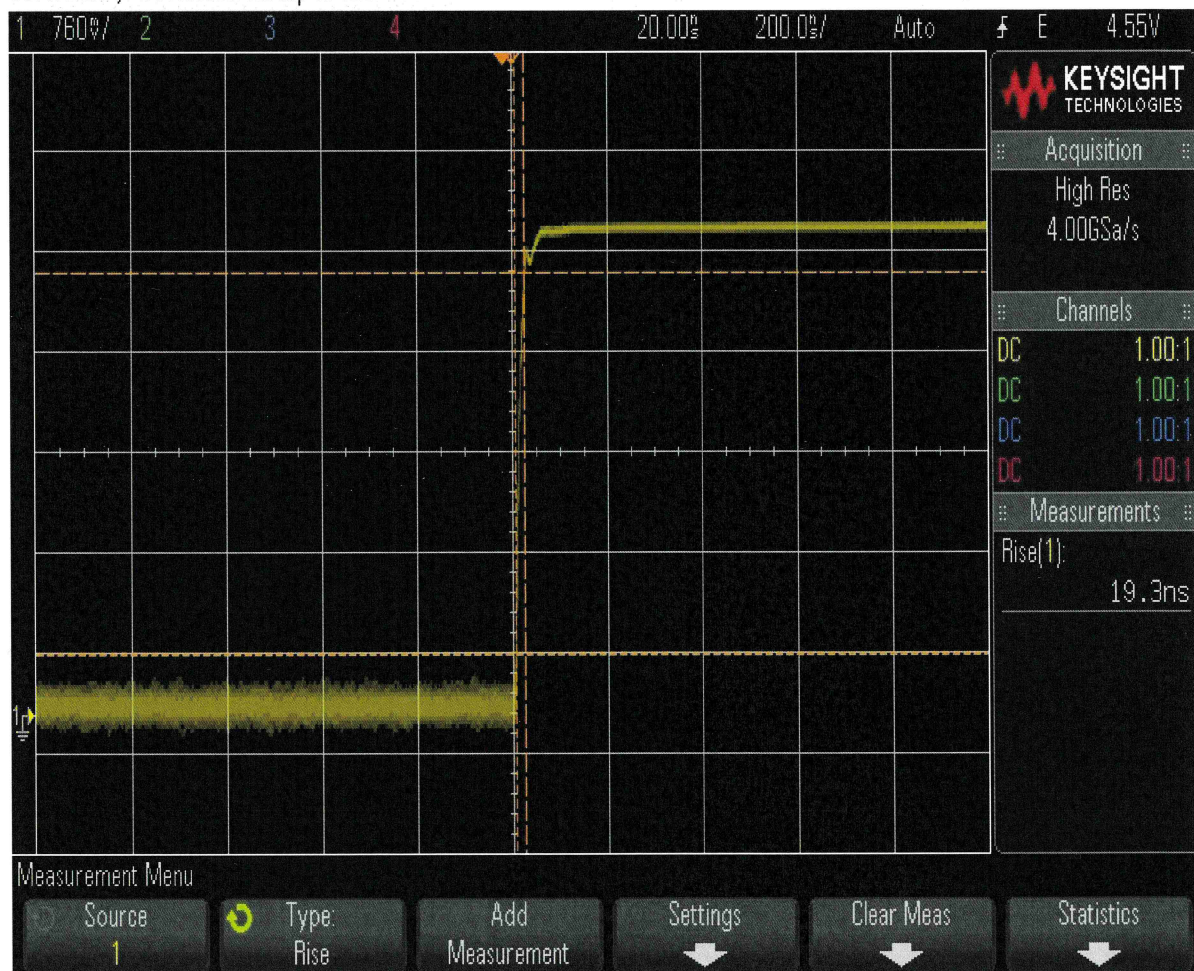


**SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF**

PL48066/2438

RISE TIME

DSO-X 3024A, MY54490369, Thu Sep 19 16:37:11 2024



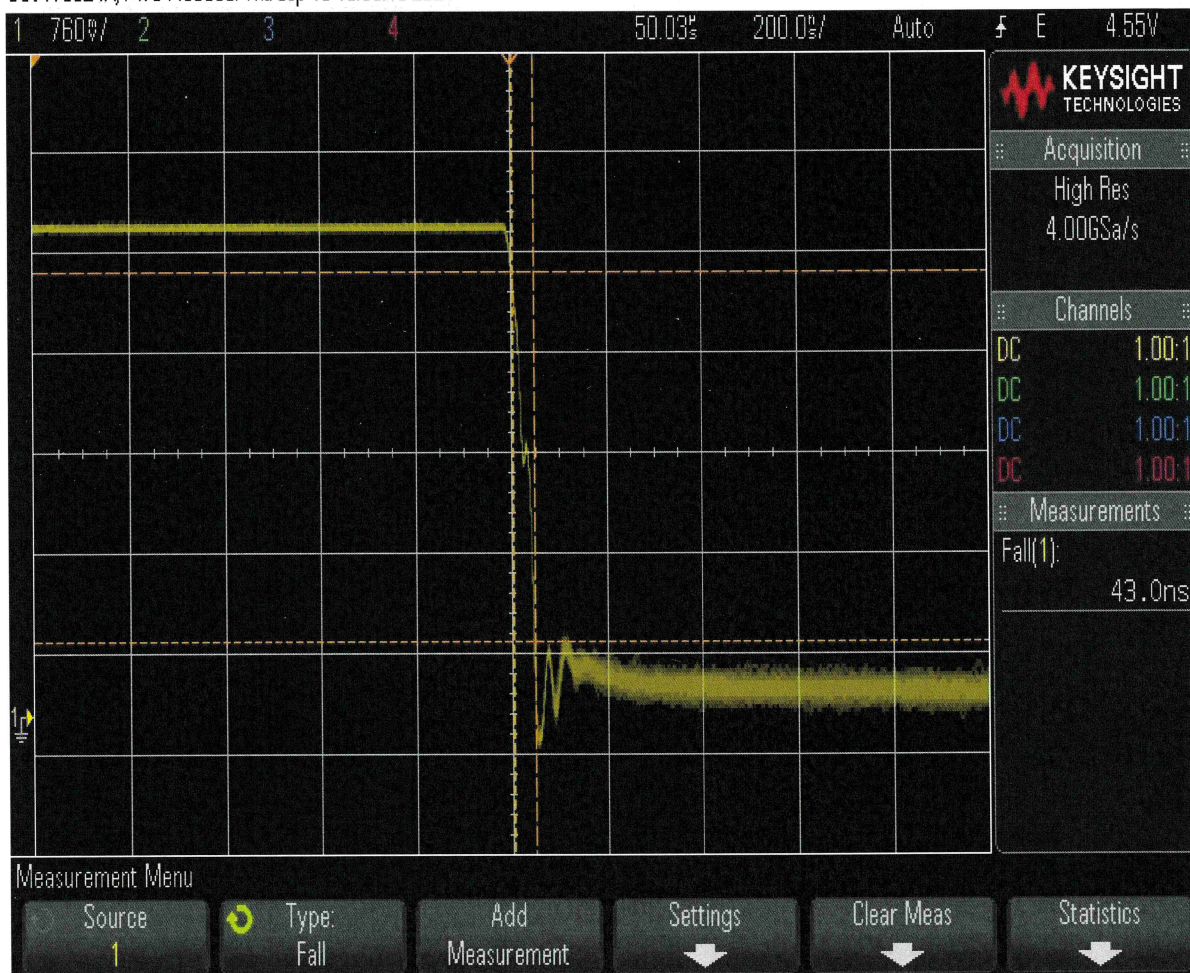


SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF

PL48066/2438

FALL/ RECOVERY TIME

DSO-X 3024A, MY54490369, Thu Sep 19 16:38:16 2024





**SUMMARY TEST DATA
ON
DLVA-8G10G-75-50-SFF**

PL48066/2438

TSS @ -79dBm

DSO-X 3024A, MY54490369, Thu Sep 19 16:40:04 2024

