



**SUMMARY TEST DATA  
ON  
ERDLVA-218-73-50MV**

Customer: \_\_\_\_\_ Tested By: Dan Almond  
 SO No: \_\_\_\_\_ Temperature: +25C  
 Model No: ERDLVA-218-73-50MV Date 8/28/2024  
 Serial No: PL47846/2435 Drawing No: 27647720 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz	PMI QA3
2	Frequency Flatness:	±2.0 dB Max.	±1.57 dB	
3	Output VSWR:	2.5:1 Max.	1.62:1	
4	Max Input Level:	+20 dBm CW	+20 dBm CW	
5	Pulse Response:	Pulse (50ns - 100µs)	50ns - 100µs	
6	TSS:	-72 dBm Max.	-72.5 dBm	
7	Log Dynamic Range:	-68 dBm To 5 dBm	-68 dBm To 5 dBm	
8	Log Slope:	50 mV/dB ±5 mV/dB Into 100Ω Load	46.63 mV/dB	
9	Log Linearity:	±1.5 dB Max.	±1.34 dB	
10	Rise Time:	25ns Max.	15.3 ns	
11	Recovery Time:	400 ns Max.	360 ns	
12	DC Offset:	+100 mV ±75 mV	135 mV	
13	Power Supply:	+12 VDC @ 330 mA Max. -12 VDC @ 100 mA Max.	+270 / -80 mA	
14	CW Immunity Range:	TSS To -40 dBm	>-40 dBm	
15	Baseline Shift:	100 mV Max.	<100 mV	

QA/QC Approval: *K. Klumpp* Date: 8-30-24

Model: ERDLVA-2G18G-73-50MV  
 Serial No: PL47846  
 Date: 8/28/2024  
 Tested By: DA  
 Test Temp: +25°C

DC Offset: 135 mV



Frequency

2 GHz	6 GHz	10 GHz	14 GHz	18 GHz
INTERCEPT (mV)	3419	3410	3376	3453
SLOPE (mV/dB)	46.64	48.62	47.78	47.48
MAX LIN ERROR	1.34	0.93	1.00	0.89
MAX ACC ERROR	1.33	1.69	1.68	1.73

RF Input Power (dBm)	2 GHz	6 GHz	10 GHz	14 GHz	18 GHz
-65	344	618	497	524	388
-60	572	848	730	742	603
-55	792	1063	970	964	834
-50	1009	1309	1185	1197	1048
-45	1254	1594	1445	1456	1286
-40	1526	1948	1731	1752	1574
-35	1798	2234	1929	1926	1833
-30	1948	2524	2193	2157	2005
-25	2162	2897	2477	2443	2289
-20	2441	3193	2715	2677	2536
-15	2680	3412	2936	2900	2761
-10	2903	3633	3174	3147	2980
-5	3147	3861	3412	3373	3208
0	3365	4089	3623	3602	3439
5	3587	4317	3834	3813	3661

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)

LOG ACCURACY (dB)

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)

LOG ACCURACY (dB)

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)

LOG ACCURACY (dB)

18 GHz	AVG SLOPE
INTERCEPT (mV)	47.4 mV/dB
SLOPE (mV/dB)	
MAX LIN ERROR	
MAX ACC ERROR	

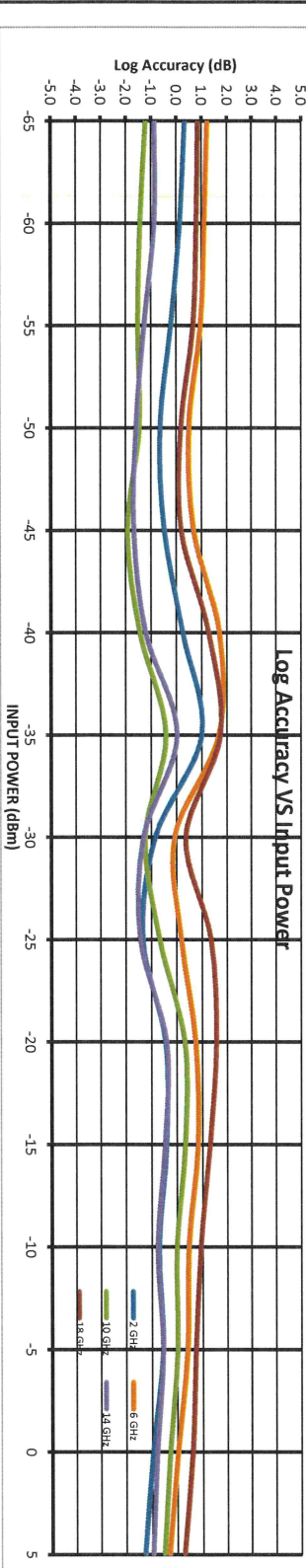
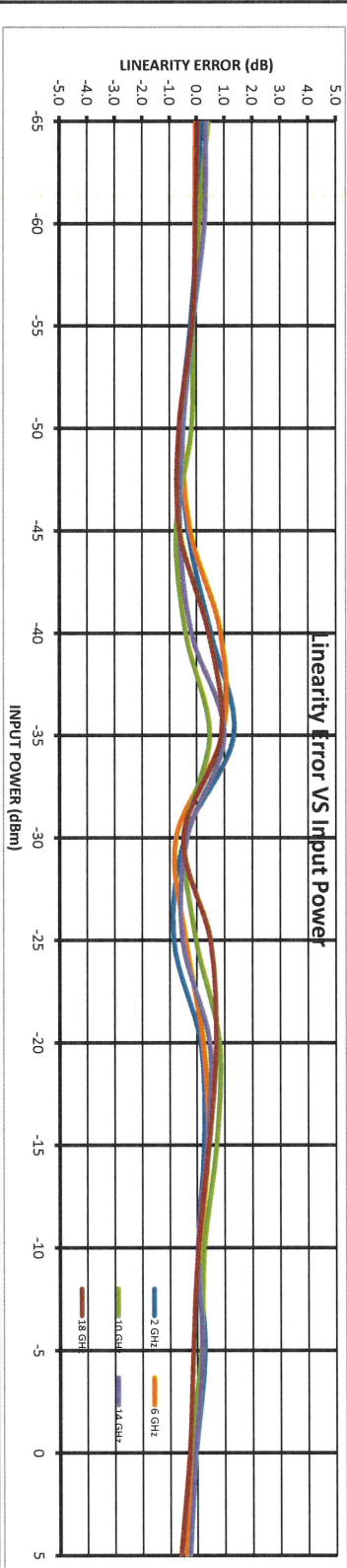
RF Input Power (dBm)	18 GHz
-65	1.22
-60	1.28
-55	1.24
-50	1.04
-45	1.31
-40	1.57
-35	1.08
-30	0.83
-25	1.39
-20	1.00
-15	0.89
-10	0.84
-5	0.64
0	0.78
5	0.78

Measured Value (mV)

Error (mV)

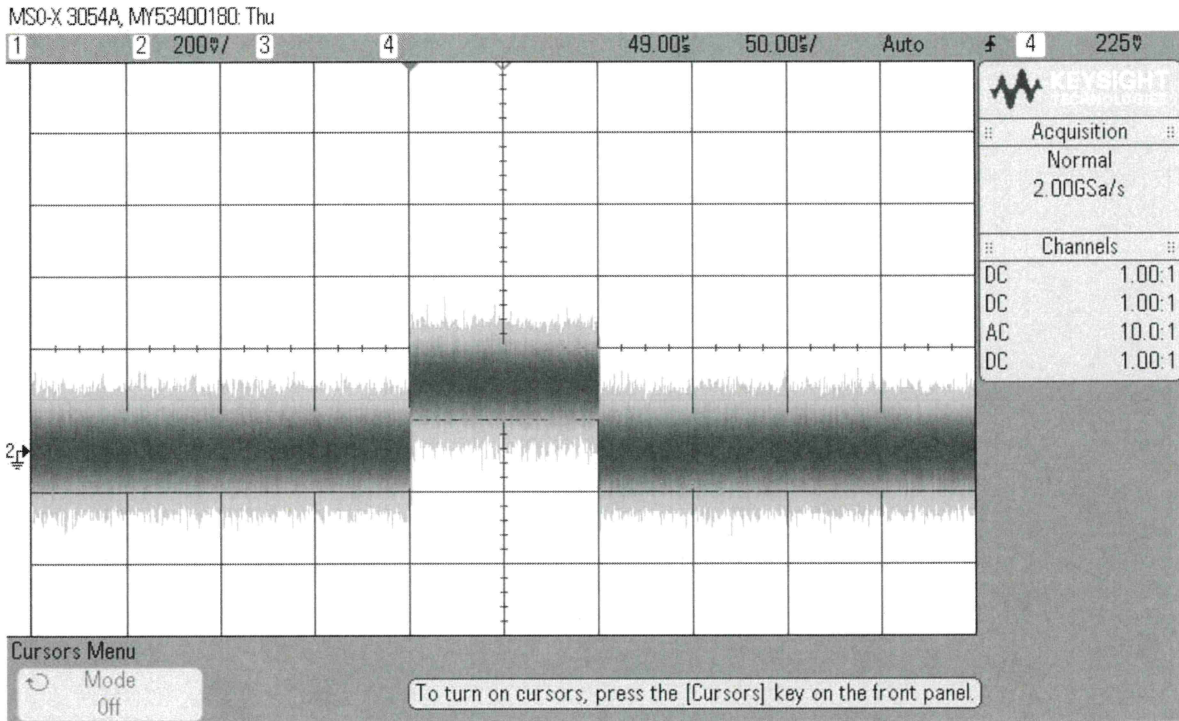
LINEARITY ERROR (dB)

LOG ACCURACY (dB)



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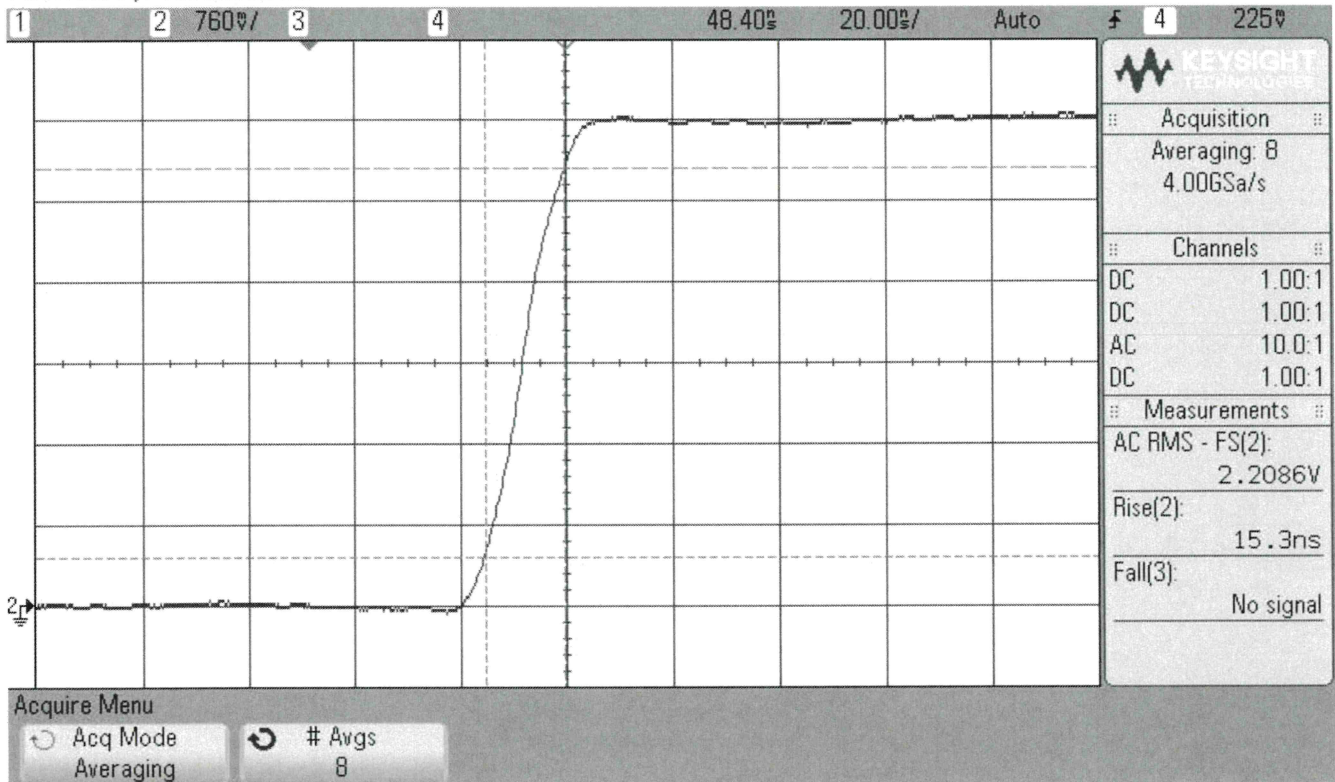
TSS -72.5dBm



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RISE TIME 15.3 nS

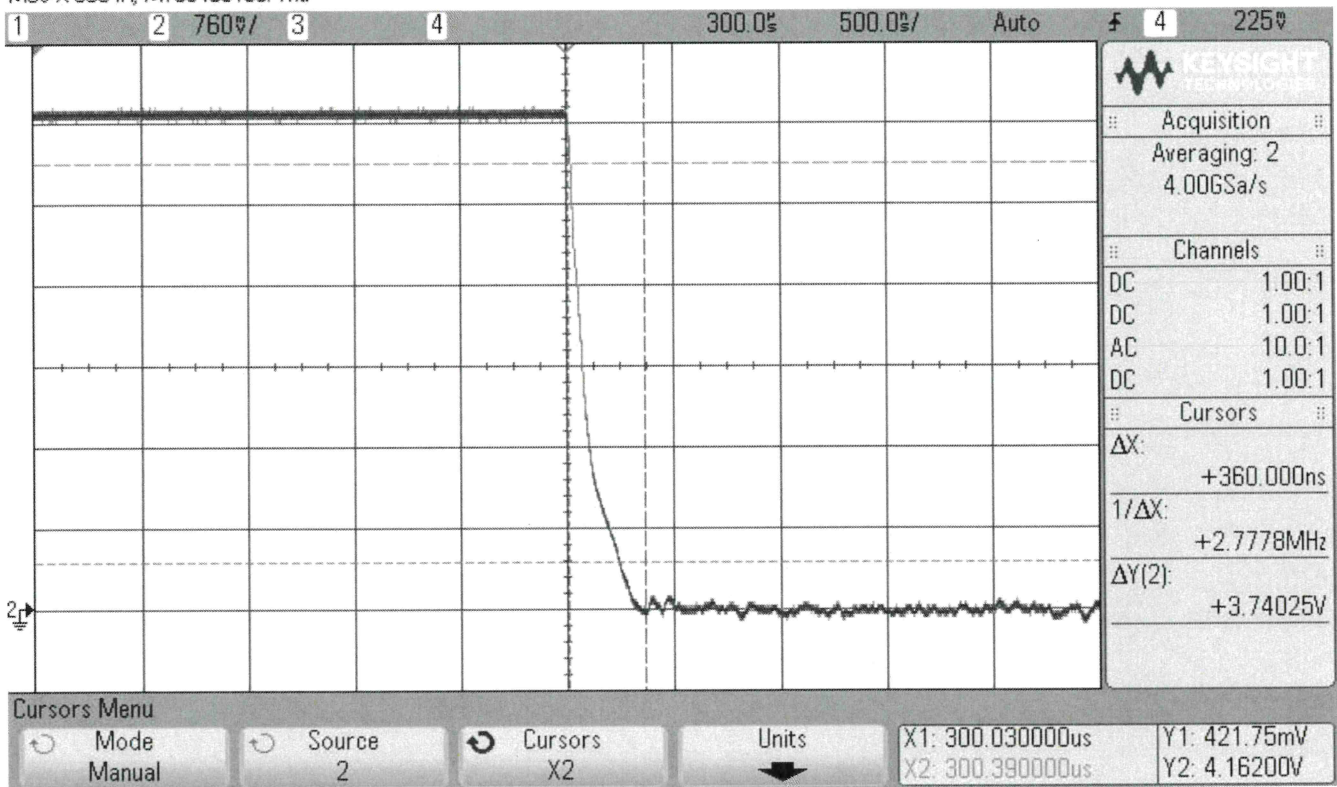
MSO-X 3054A, MY53400180: Thu



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RECOVERY TIME 360 ns

MSO-X 3054A, MY53400180: Thu



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VSWR 1.62:1

