

SUMMARY TEST DATA ON SDLVA-50M18G-70

CUSTOMER: _____
 SO: _____
 MODEL NO: SDLV A-50M18G-70
 SERIAL NO: PL57758/2605

TESTED BY: Daniel W.
 TEMPERATURE: +25°C
 DATE: 1/30/2026
 DRAWING NO: 27629813 REV: B1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range	0.05 GHz to 18.0 GHz	0.05 GHz to 18.0 GHz See Plot	PMI QA3
2	Frequency Flatness	±2.0 dB Max	±1.8 dB	
3	TSS	-70 dBm Typ	-71 dBm	
4	VSWR	2.0:1 Max	1.99:1	
5	Video Comparator Output	5 V into 1 MΩ, 2.5 V into 50 Ω Typ	2.3V into 50Ω	
6	Video Comparator Threshold Level	-60 dBm to 0 dBm (Operating Range) Threshold = V1±5% & ±25 mV (Hysteresis)	Pass	
7	Log Range	-70 dBm to 0 dBm	-70 dBm to 0 dBm	
8	Log Slope	25 mV/dB ±5% @ 50 Ω Load	25.28 mV/dB Avg.	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	±1.17 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	21.56 ns	
12	Recovery Time	600 ns Max	569 ns	
13	Fall Time	400 ns MAX	126.19 ns	
14	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	< 400 mA < 200 mA	

QA/QC Approval: *K. [Signature]*

Date: 1-30-26



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LOG TRANSFER WITH FREQUENCY @ +25°C
 MODEL: SDLVA-50M18G-70
 TESTED BY: Daniel W.
 TEST DATE: 1-30-26
 SERIAL NO: PL57758/2605
 TEST TEMP: +25C

Frequency

RF Input Power (dBm)

50 MHz	INTERCEPT (mV)	2288.95
	SLOPE (mV/dB)	26.05

	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
489	592	725	841	980	1112	1234	1382	1513	1636	1780	1899	2032	2150	2293	
24	-4	-1	-15	-6	-5	-13	5	6	-2	12	1	4	-9	4	
0.90	-0.14	-0.04	-0.58	-0.25	-0.18	-0.50	0.18	0.21	-0.07	0.46	0.03	0.14	-0.33	0.16	

Measured Value (mV)	2293
Error (mV)	4
LINEARITY ERROR (dB)	0.16

9 GHz	INTERCEPT (mV)	2301.39
	SLOPE (mV/dB)	25.3636

	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
530	633	779	890	1055	1176	1306	1421	1545	1647	1790	1898	2036	2179	2320	
4	-20	-1	-16	22	16	19	7	5	-20	-4	-23	-12	4	19	
0.16	-0.78	-0.02	-0.65	0.86	0.63	0.76	0.29	0.18	-0.80	-0.16	-0.90	-0.46	0.17	0.73	

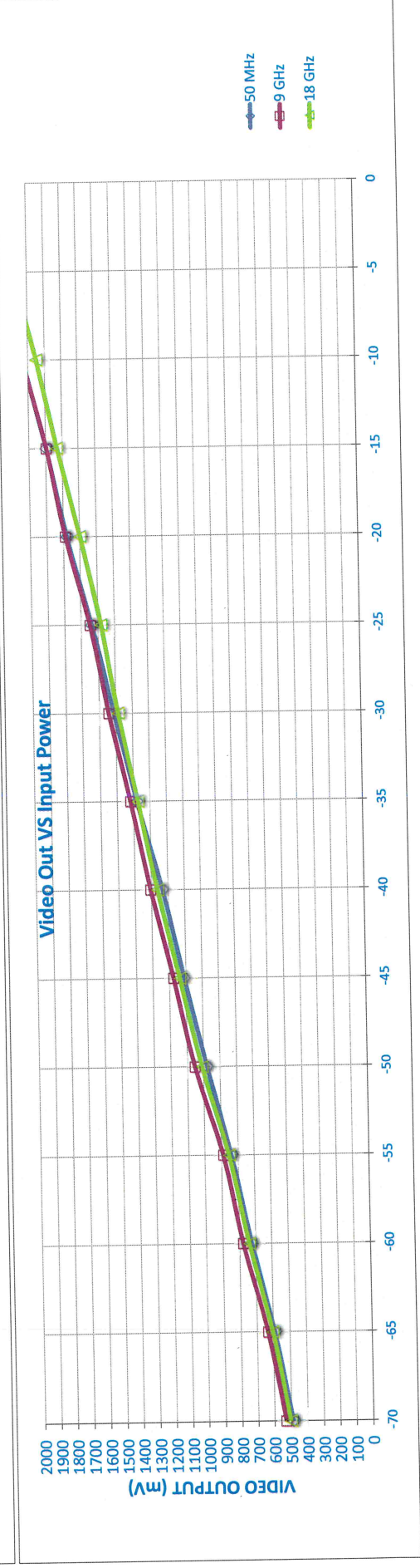
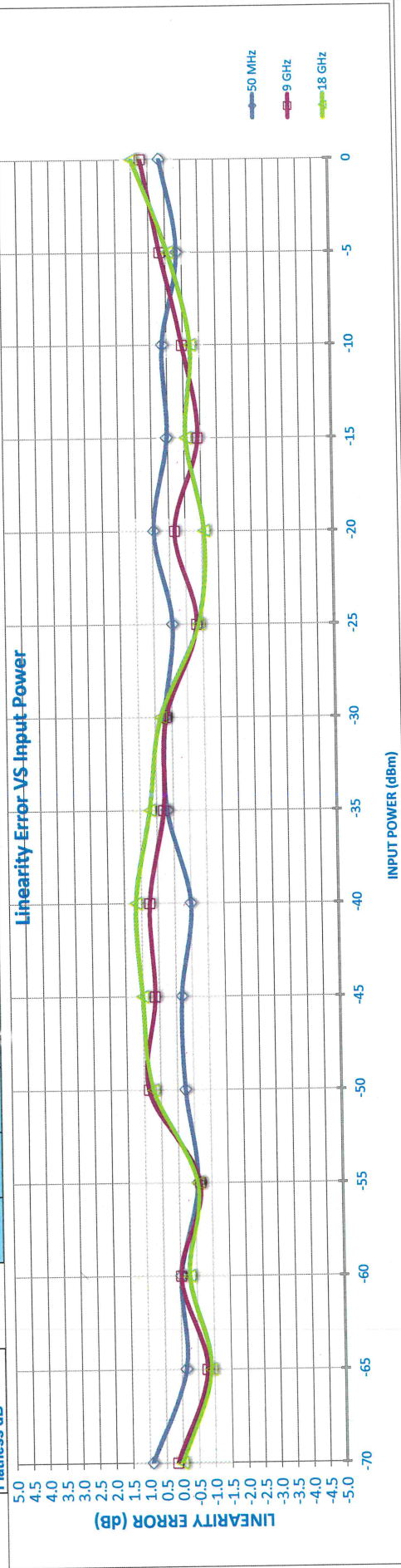
Measured Value (mV)	2320
Error (mV)	19
LINEARITY ERROR (dB)	0.16

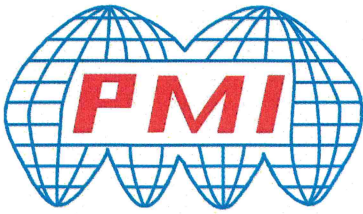
18 GHz	INTERCEPT (mV)	2213.56
	SLOPE (mV/dB)	24.4271

	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
504	604	741	856	1010	1139	1265	1376	1489	1582	1699	1834	1952	2090	2238	
0	-22	-7	-14	18	25	29	17	8	-21	-26	-13	-17	-1	24	
0.01	-0.89	-0.28	-0.58	0.73	1.01	1.17	0.71	0.34	-0.85	-1.06	-0.54	-0.71	-0.06	1.00	

Measured Value (mV)	2238
Error (mV)	24
LINEARITY ERROR (dB)	1.00

Flatness dB	0.8	0.8	1.1	1	1.5	1.3	1.4	0.9	1.1	1.3	1.8	1.3	1.7	1.8	1.6
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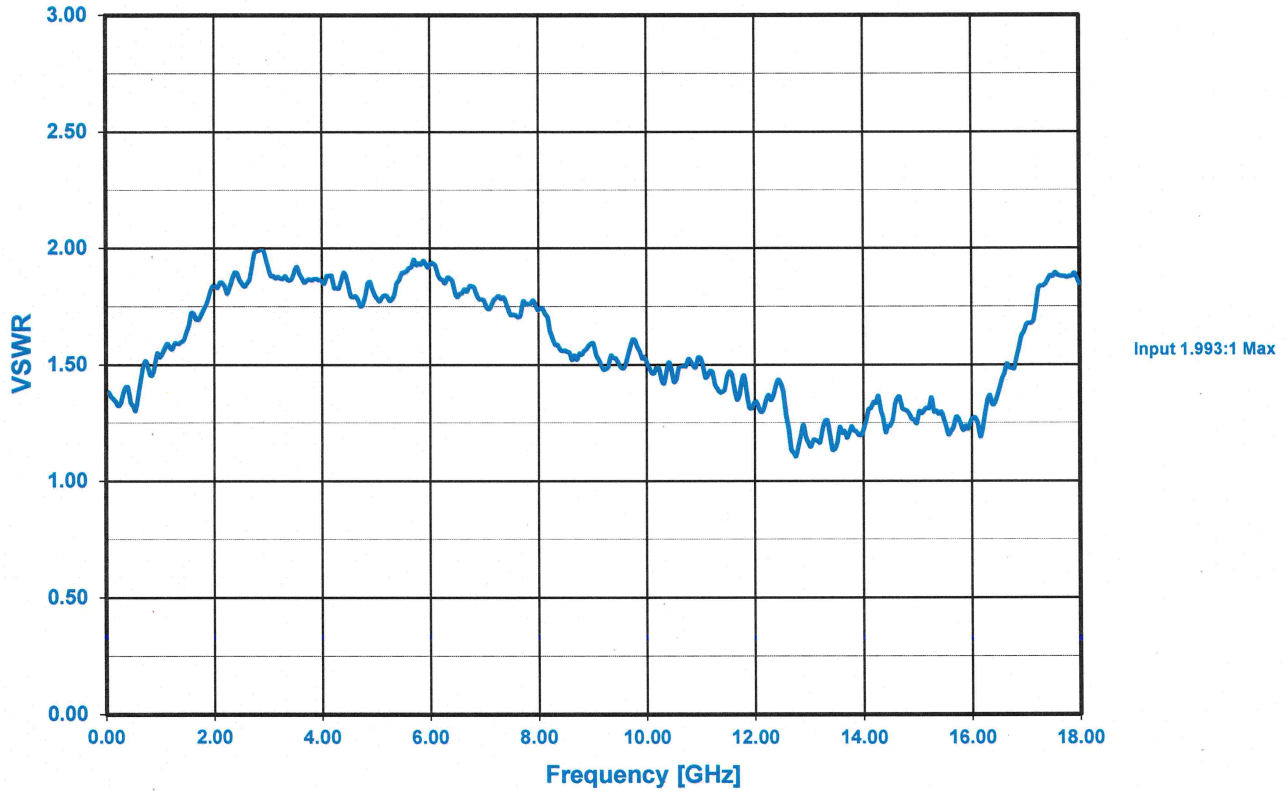


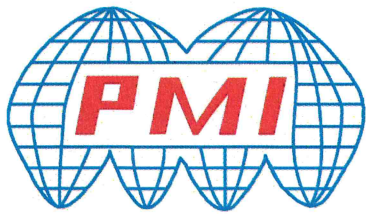
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ON
SDLVA-50M18G-70**

Model Number: SDLVA-50M18G-70
Serial Number: PL57758/2605

Temperature: +25C

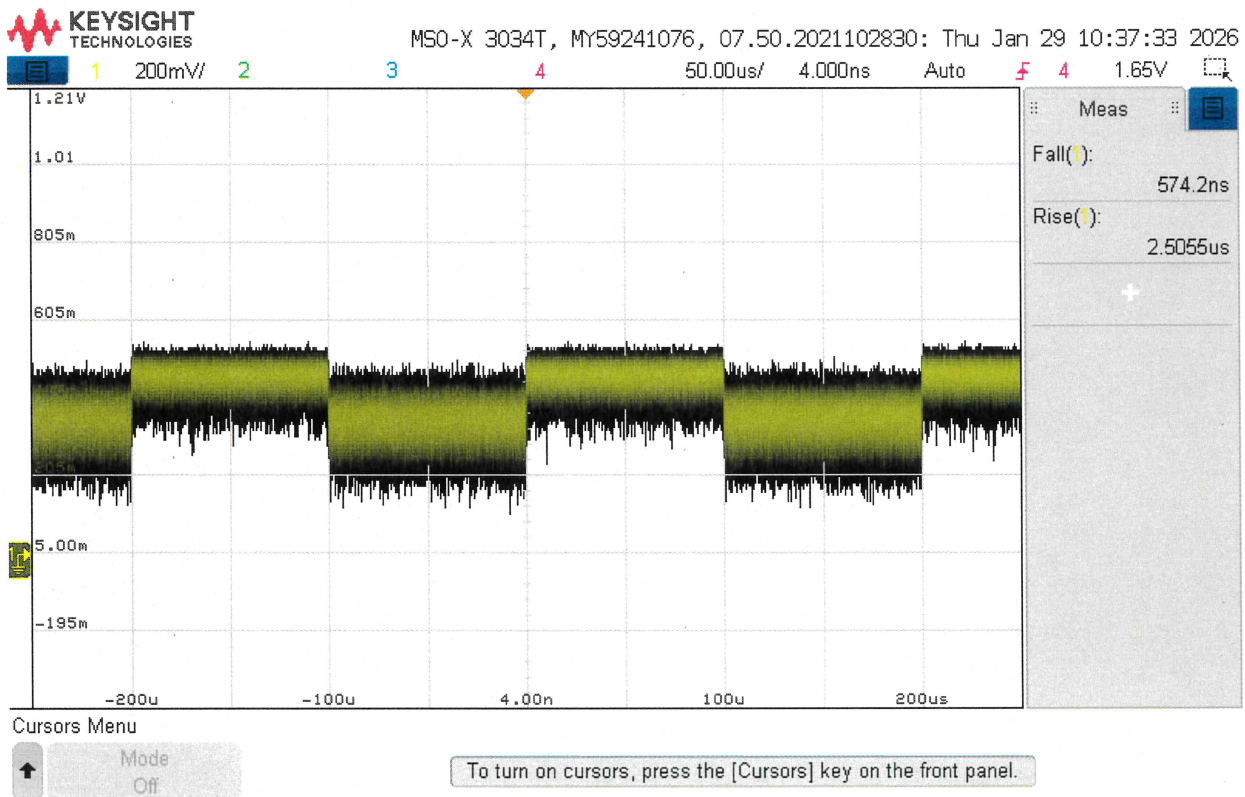
VSWR GRAPH





**SUMMARY TEST DATA
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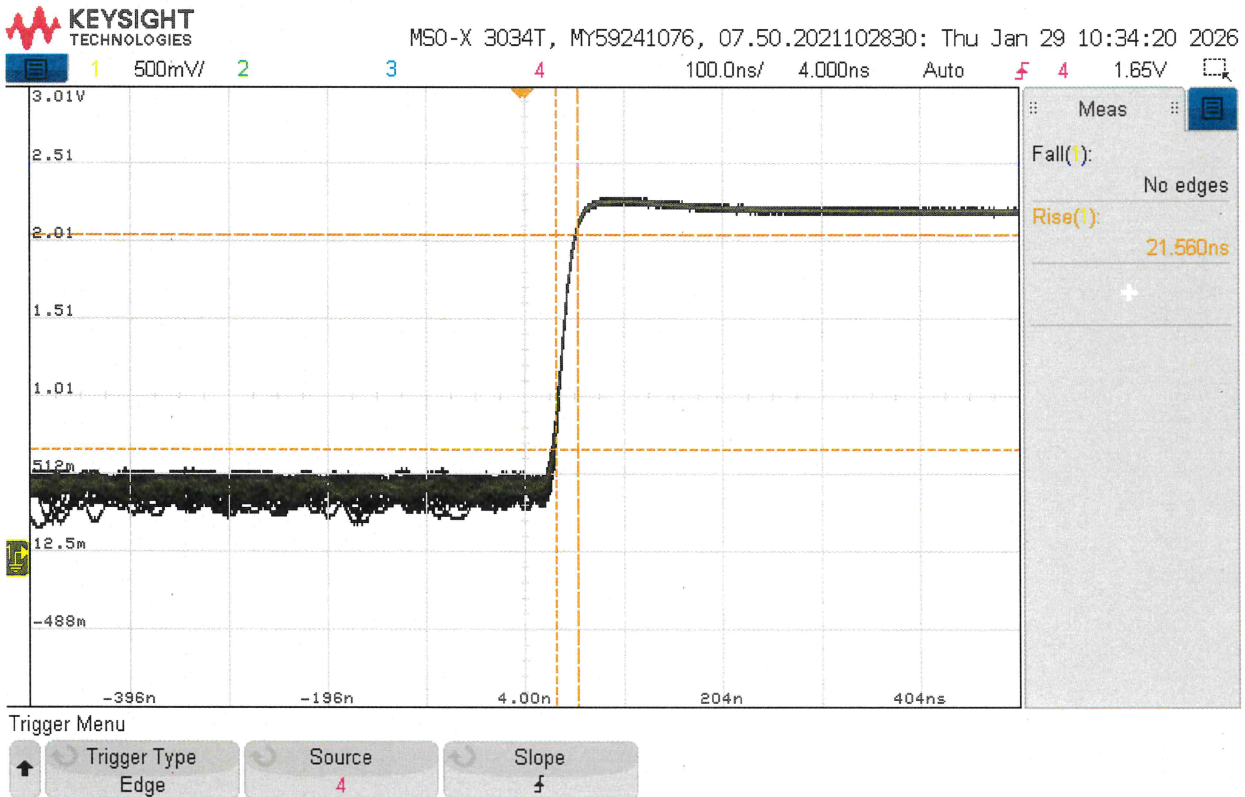
TSS = -71 dBm

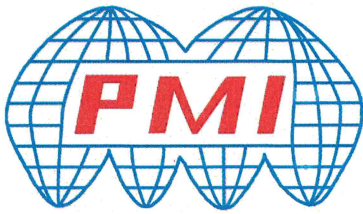




**SUMMARY TEST DATA
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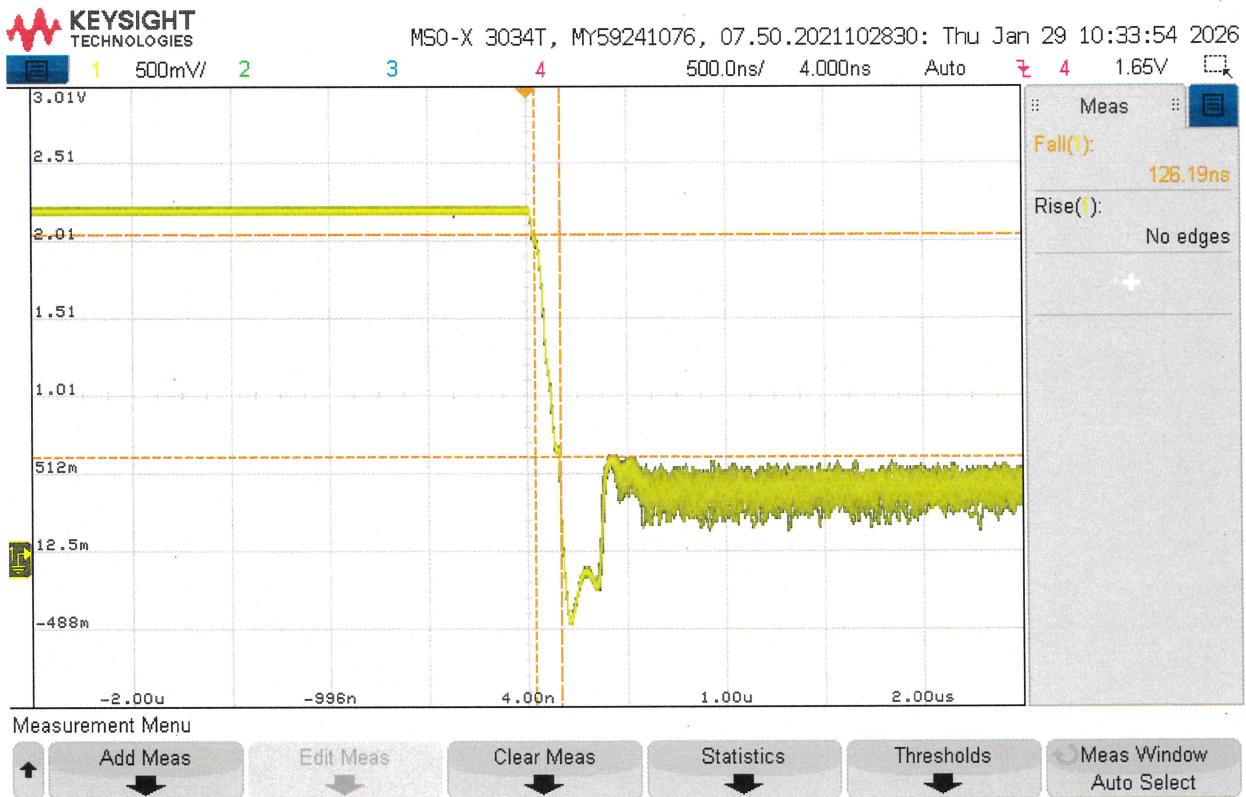
Rise Time = 21.56 ns





**SUMMARY TEST DATA
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Fall Time = 126.19 ns





**SUMMARY TEST DATA
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Recovery Time = 569 ns

