





**Summary Data
For
EWDM-2G6G-65-70MV-1**

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	13.3/11.2 dB	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	1.0 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	4.6 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-25.2 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-33.4 dBc	
18	VIDEO OUT TSS:	-71 dBm MAX	-71 dBm	
19	VIDEO OUT Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
20	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	70.5 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	0.31 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	1.1/-1.06 db	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	+/- 1.25 db	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-5 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	17.8 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	185.0 ns	
27	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	40 ns	
28	VIDEO OUT Recovery Time:	0.5 us MAX to within 1 dB of baseline	.45 us	



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29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	0.98 dB	PMI QAG
30	VIDEO OUT CW Immunity:	A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX	140 mV	
		B. Pulse Peak Amplitude Loss; 2 dB MAX	<2 dB	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	1.5 ms	
		CW Recovery Time at CW = -40 dBm, ≤ 50 us	40 us	
31	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	Pass	
32	VIDEO OUT load Impedance:	$75 \pm 1 \Omega$	Pass	
33	VIDEO OUT Video Output driver capability	150 ft. RG11 into 75 ohm load	Pass	
34	Pulse density capability:	10% duty cycle 100ns; 70% duty cycle 300us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline	Pass	
35	VIDEO OUT Noise Level (Vp-p):	150 mV TYP	100 mV	



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36	Droop of the Output Video Pulse @ 300us & - 65 dBm	70mV (1 dB) MAX	<70 mV	PMI QA3
37	VIDEO OUT Propagation Delay:	50 ns MAX Excluding cable	<50 ns	
38	Power Supply	+15 V @ 1000 mA MAX -15 V @ 500 mA MAX	+15 V @ 630 mA -15 V @ 140 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval:

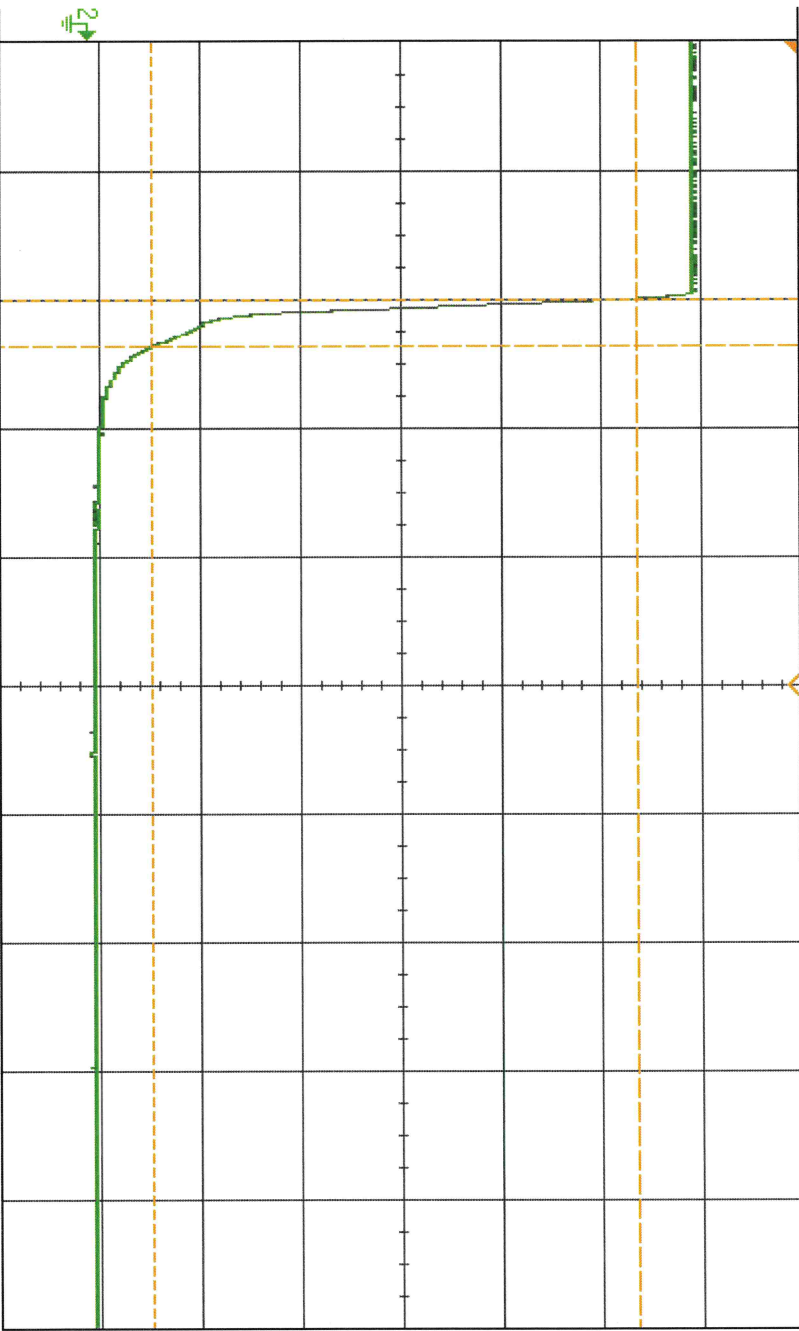
K. Luter

Date:

6-14-24

DSO-X 3034A, MW52394003: Mon Jun 10 08:14:23 2024

1 2 800V/ 3 2.202s 500.0ns/ 4 Auto f E 2.42V



Measurement Menu

Source 2

Type: Fall

Add Measurement

Settings

Clear Meas

Statistics

Acquisition	
Averaging: B4	
4.006Sa/s	
Channels	
DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1
Measurements	
AC RMS - FS(2):	1.9201V
Rise(2):	No edges
Fall(2):	185.0ns

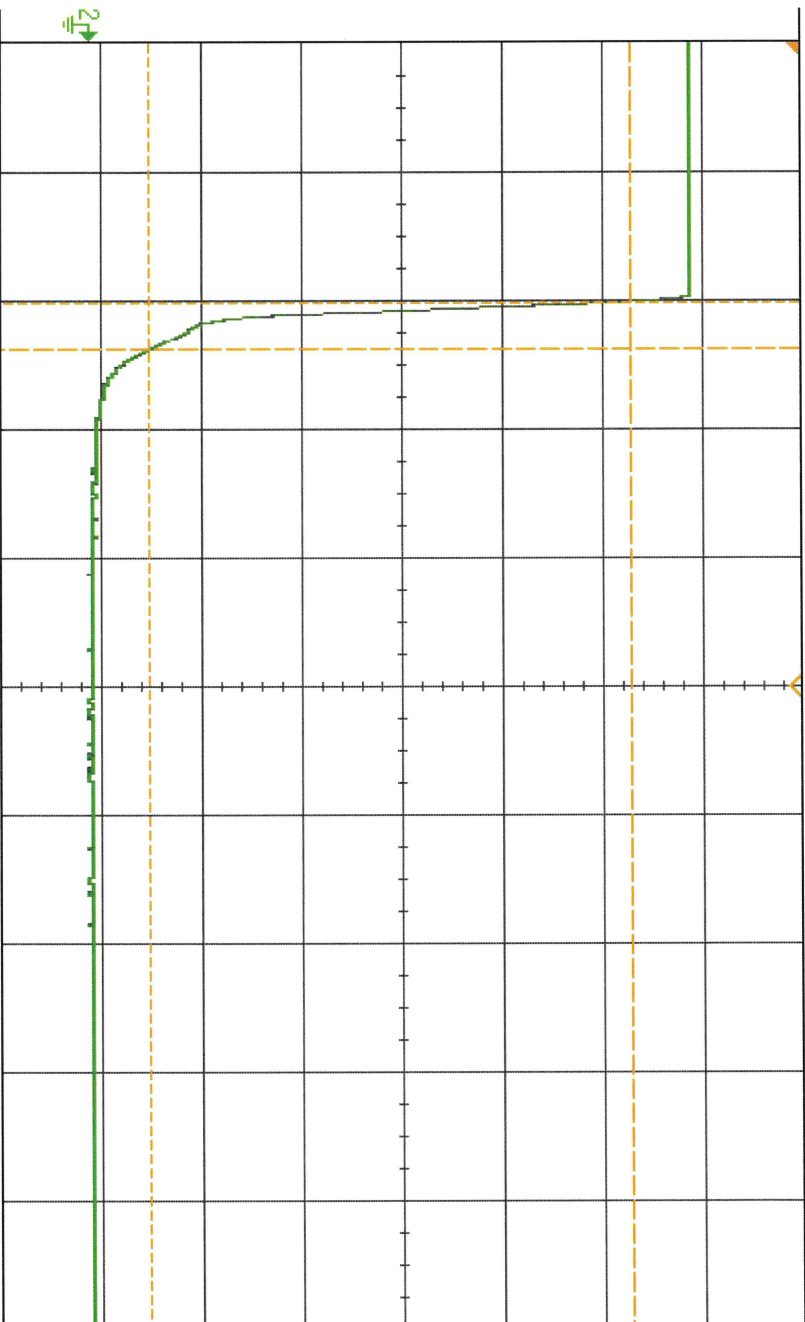
5000s D 50001 M
5400002R 082537D

PL35780 Recovery

W 10ps P 50ps

DSO-X 3034A, MW52394003: Mon Jun 10 08:15:04 2024

1 2 800% / 3 4 2.212s 500.0% / Auto f E 2.42V



Save to file = pl35780_recovery_10

Save

Recall

Default/Erase

Acquisition	
Averaging: B4	
4.006Sa/s	
Channels	
DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1
Measurements	
AC RMS - FS[2]:	
1.9189V	
Rise[2]:	
No edges	
Fall[2]:	
181.9ns	

Press to Save