



Tested By: Jim Hopson

Temperature: 0°C TO +85°C

Date 6/12/2024

Drawing No: 27637945

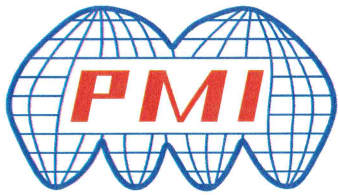
Rev: A1

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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	13.8/11.8 dB	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	2 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	5.4 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-22.7 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-33 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	69.3 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	0.37/-1.17 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	.98/-1.88 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	-1.41 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-10 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	24 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	140.9 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	0.45 us	



Summary Data
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29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	0.74 dB	PMI QA3
30	VIDEO OUT CW Immunity:	A. CW Immune Power TSS to -40 dBm Baseline Shift: 200 mV MAX	< 200 mV	
		B. Pulse Peak Amplitude Loss; 2 dB MAX	< 2 dB	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	2 ms	
		CW Recovery Time at CW = -40 dBm, ≤ 50 us	< 50 us	
31	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	100 ns to 300 us	
32	VIDEO OUT load Impedance:	$75 \pm 1 \Omega$	75 Ω	
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	90 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	40 ns	
38	Power Supply	+15 V @ 1000 mA MAX -15 V @ 500 mA MAX	+15 V @ 630 mA -15 V @ 130 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass/Fail	

QA/QC Approval:

H. Luter

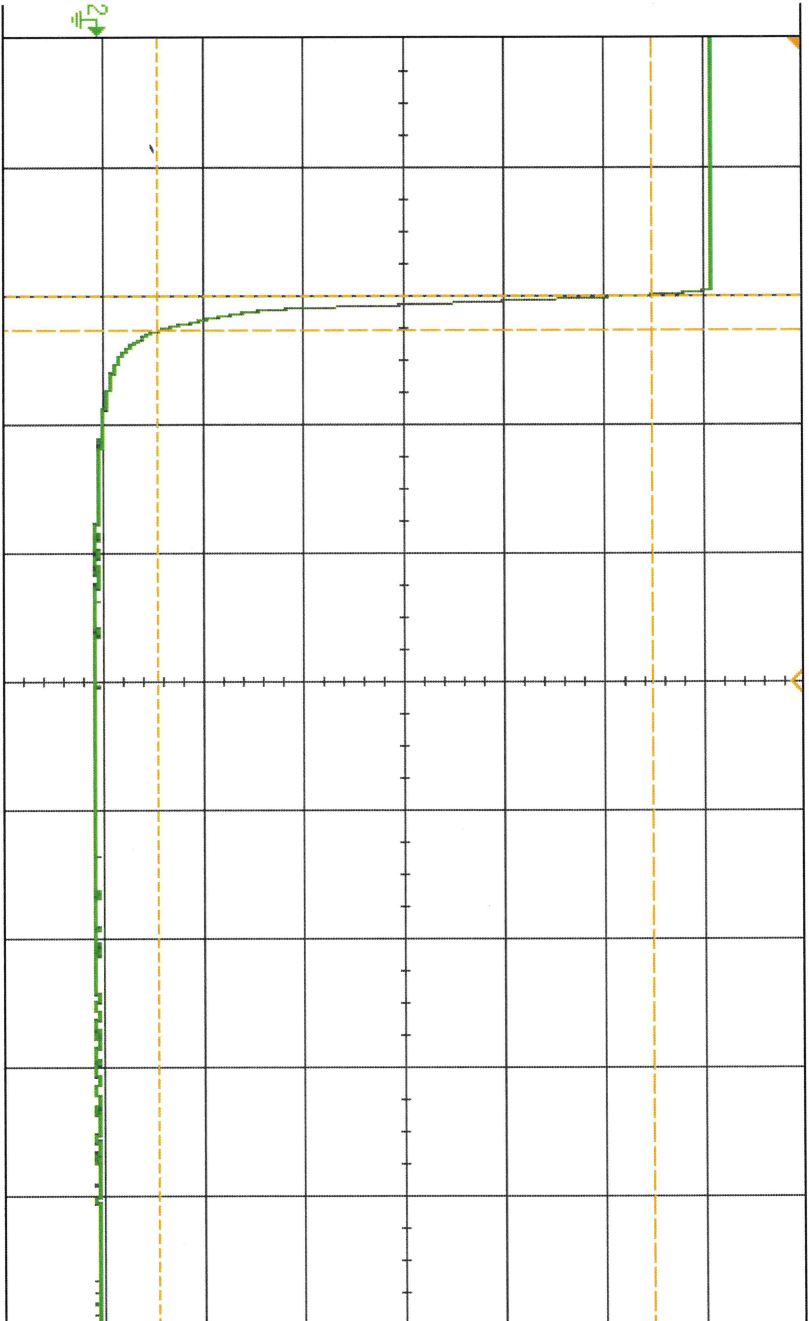
Date:

6-14-24

PL 35772 Recovery
w 100ps P 300ps

DSO-X 3034A, MW52394003: Fri Jun 07 13:42:47 2024

1 2 800%/ 3 4 2.212ms 500.0ns/ Auto f E 2.54V



Acquire Menu

Acq Mode Averaging

Avgs 64

Segmented

KEYSIGHT TECHNOLOGIES	
Acquisition	
Averaging: 64	
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):	1.9754V
Rise(2):	No edges
Fall(2):	139.7ns

PL35772 Recovery
w 10ps P50ps

