



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

13	SW Linear Gain	+7 dB MIN, 15 dB MAX	+12.13 dB MAX +10.64 dB MIN	PMI QA3
14	SW Frequency Flatness:	±1.2 dB MAX	±0.7 dB	
15	SW 1 dB Compression Point:	+3 dBm MIN	+6.84 dBm	
16	SW Second Harmonic:	-9 dBc MIN	-27 dBc	
17	SW Third Harmonic:	-12 dBc MIN	-48 dBc	
18	VIDEO OUT TSS:	-71 dBm MAX	-71.6 dBm	
19	VIDEO OUT Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
20	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	71.2 mV/dB	
21	VIDEO OUT Log Linearity:	±0.75 dB MAX @ 4 GHZ	±0.45 dB	
22	VIDEO OUT Log Accuracy:	±1.25 dB MAX	±0.84 dB	
23	VIDEO OUT Absolute Log Accuracy:	±1.5 dB MAX	±1.2 dB	
24	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On)	-37 mV	
25	VIDEO OUT Rise Time (10% to 90%):	25 ns TYP 28 ns MAX	26.3 ns	
26	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	147.5 ns	
27	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value, MAX	35.48 ns	
28	VIDEO OUT Recovery Time:	0.5 us MAX to within 1 dB of baseline	0.37 us	



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29	VIDEO OUT Video Frequency Flatness:	± 1.0 dB MAX	± 0.73 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	1.3 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	< 150 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 @ 625 mA -15 V @ 140 mA	
39	Power Supply Ripple From DC to 10 MHz	100 mV MAX	PASS	

QA/QC Approval: K. [Signature]

Date: 5.31.24



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42365
Date: 05/30/2024
Tested By: J. Monley
Test Temp: +25°C
Input Port: RF Port

DC Offset: -37 mV



Frequency

		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
2 GHz	INTERCEPT (mV)	263	629	979	1325	1684	2020	2382	2743	3088	3453	3804	4163	4506	4848
	SLOPE (mV/dB)	-5	8	5	-2	3	-14	-6	3	-5	7	6	11	0	-11
	MAX LIN ERROR	-0.07	0.11	0.07	-0.03	0.05	-0.19	-0.07	0.04	-0.07	0.10	0.07	0.15	0.01	-0.15
	MAX ACC ERROR	0.17	0.38	0.36	0.28	0.39	0.17	0.32	0.45	0.36	0.56	0.55	0.66	0.54	0.40
3 GHz	INTERCEPT (mV)	283	648	997	1339	1695	2027	2378	2715	3054	3409	3762	4127	4472	4849
	SLOPE (mV/dB)	-6	11	11	5	12	-4	-2	-13	-23	-16	-11	5	2	30
	MAX LIN ERROR	-0.09	0.15	0.16	0.07	0.17	-0.06	-0.02	-0.19	-0.32	-0.23	-0.16	0.07	0.02	0.43
	MAX ACC ERROR	0.46	0.65	0.61	0.48	0.54	0.27	0.26	0.06	-0.12	-0.07	-0.05	0.14	0.05	0.42
4 GHz	INTERCEPT (mV)	236	596	938	1289	1639	1976	2332	2673	3013	3355	3709	4075	4422	4798
	SLOPE (mV/dB)	-2	9	3	5	7	-5	3	-5	-13	-20	-15	3	1	29
	MAX LIN ERROR	-0.03	0.14	0.04	0.08	0.10	-0.07	0.04	-0.07	-0.19	-0.29	-0.21	0.04	0.02	0.41
	MAX ACC ERROR	-0.21	-0.09	-0.23	-0.23	-0.25	-0.46	-0.39	-0.54	-0.70	-0.84	-0.80	-0.60	-0.66	-0.31
5 GHz	INTERCEPT (mV)	237	598	944	1294	1646	1983	2344	2698	3043	3391	3741	4106	4449	4819
	SLOPE (mV/dB)	-1	8	3	2	3	-11	-1	1	-5	-8	-9	5	-3	16
	MAX LIN ERROR	-0.02	0.12	0.05	0.03	0.04	-0.16	-0.02	0.02	-0.07	-0.11	-0.13	0.07	-0.05	0.22
	MAX ACC ERROR	-0.20	-0.06	-0.14	-0.16	-0.15	-0.36	-0.22	-0.19	-0.28	-0.33	-0.35	-0.15	-0.27	-0.01
6 GHz	INTERCEPT (mV)	219	576	917	1270	1616	1959	2336	2718	3067	3421	3759	4123	4468	4844
	SLOPE (mV/dB)	12	13	-2	-5	-15	-28	-7	19	12	10	-8	0	-11	10
	MAX LIN ERROR	0.16													



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Model: EWDM-2G6G-65-70MV-1
Serial No: PL42365
Date: 05/30/2024
Tested By: J. Monley
Test Temp: +25°C
Input Port: BIT Port

DC Offset: -29 mV



Frequency

2 GHz	INTERCEPT (mV)	4874
	SLOPE (mV/dB)	70.5
	MAX LIN ERROR	0.17
	MAX ACC ERROR	0.76

3 GHz	INTERCEPT (mV)	4829
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.45
	MAX ACC ERROR	0.67

4 GHz	INTERCEPT (mV)	4781
	SLOPE (mV/dB)	69.7
	MAX LIN ERROR	0.45
	MAX ACC ERROR	0.81

5 GHz	INTERCEPT (mV)	4808
	SLOPE (mV/dB)	70.2
	MAX LIN ERROR	0.27
	MAX ACC ERROR	0.41

6 GHz	INTERCEPT (mV)	4838
	SLOPE (mV/dB)	71.1
	MAX LIN ERROR	0.37
	MAX ACC ERROR	0.74

AVG. SLOPE: 70.3 mV/dB

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
2 GHz	287	648	999	1345	1705	2041	2400	2759	3104	3469	3820	4179	4522	4866
	-3	6	4	-2	5	-12	-5	1	-7	6	4	10	1	-8
	-0.04	0.08	0.06	-0.03	0.07	-0.17	-0.08	0.01	-0.09	0.08	0.06	0.15	0.01	-0.11
	0.36	0.50	0.50	0.42	0.55	0.33	0.44	0.55	0.46	0.66	0.65	0.76	0.65	0.54
3 GHz	295	660	1008	1351	1706	2038	2390	2726	3065	3419	3772	4137	4482	4860
	-6	11	10	5	12	-4	-1	-13	-22	-17	-12	5	1	31
	-0.09	0.15	0.15	0.07	0.17	-0.06	-0.01	-0.19	-0.32	-0.24	-0.17	0.07	0.02	0.45
	0.48	0.67	0.63	0.51	0.56	0.29	0.30	0.06	-0.09	-0.05	-0.03	0.17	0.08	0.46
4 GHz	251	608	951	1302	1653	1989	2346	2685	3025	3366	3721	4087	4433	4813
	0	8	3	5	8	-5	4	-5	-14	-22	-15	2	0	32
	-0.01	0.12	0.04	0.07	0.11	-0.07	0.05	-0.08	-0.20	-0.31	-0.22	0.04	0.00	0.45
	-0.15	-0.07	-0.19	-0.19	-0.19	-0.41	-0.33	-0.50	-0.66	-0.81	-0.76	-0.55	-0.62	-0.21
5 GHz	244	603	948	1299	1651	1989	2350	2701	3047	3394	3745	4111	4454	4827
	0	8	2	2	3	-10	0	0	-6	-10	-10	5	-3	19
	0.01	0.12	0.03	0.03	0.04									



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42365
Date: 5/30/2024
Tested By: F. Cortes
Test Temp: 0°C
Input Port: RF Port



DC Offset: 18 mV

Frequency

2 GHz	INTERCEPT (mV)	4978
	SLOPE (mV/dB)	71.1
	MAX LIN ERROR	0.22
	MAX ACC ERROR	0.59

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
374	719	1072	1417	1780	2122	2480	2834	3190	3564	3921	4282	4622	4977
15	5	3	-8	0	-13	-10	-12	-11	8	9	15	0	-1
0.22	0.07	0.04	-0.11	0.00	-0.19	-0.15	-0.17	-0.16	0.11	0.13	0.21	-0.01	-0.01
0.30	0.18	0.18	0.06	0.20	0.03	0.10	0.11	0.14	0.43	0.48	0.59	0.40	0.42

RF Input Power (dBm)

Measured Value (mV)	4978
Error (mV)	0.22
LINEARITY ERROR (dB)	0.11
LOG ACCURACY (dB)	0.21

3 GHz	INTERCEPT (mV)	4931
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.41
	MAX ACC ERROR	0.47

386	728	1084	1427	1789	2125	2470	2801	3152	3515	3874	4242	4585	4960
12	3	9	1	13	-2	-7	-27	-26	-14	-5	12	4	29
0.17	0.04	0.12	0.02	0.18	-0.03	-0.11	-0.38	-0.38	-0.20	-0.08	0.17	0.06	0.41
0.47	0.31	0.35	0.20	0.32	0.08	-0.04	-0.36	-0.39	-0.26	-0.18	0.03	-0.12	0.18

Measured Value (mV)	4931
Error (mV)	0.41
LINEARITY ERROR (dB)	0.17
LOG ACCURACY (dB)	0.17

4 GHz	INTERCEPT (mV)	4880
	SLOPE (mV/dB)	70.1
	MAX LIN ERROR	0.41
	MAX ACC ERROR	1.07

336	679	1025	1372	1736	2070	2419	2755	3107	3458	3818	4193	4534	4909
14	7	2	-1	12	-5	-6	-21	-20	-19	-10	14	5	29
0.20	0.10	0.03	-0.02	0.17	-0.07	-0.09	-0.30	-0.28	-0.28	-0.14	0.20	0.07	0.41
-0.25	-0.38	-0.49	-0.58	-0.43	-0.70	-0.76	-1.01	-1.03	-1.07	-0.97	-0.67	-0.84	-0.54

Measured Value (mV)	4880
Error (mV)	0.41
LINEARITY ERROR (dB)	0.20
LOG ACCURACY (dB)	0.07

5 GHz	INTERCEPT (mV)	4913
	SLOPE (mV/dB)	70.6
	MAX LIN ERROR	0.25
	MAX ACC ERROR	0.67



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

Model: EWDM-2G6G-65-70MV-1
Serial No: PL42365
Date: 5/30/2024
Tested By: F. Cortes
Test Temp: +85°C
Input Port: RF Port

DC Offset: 21 mV

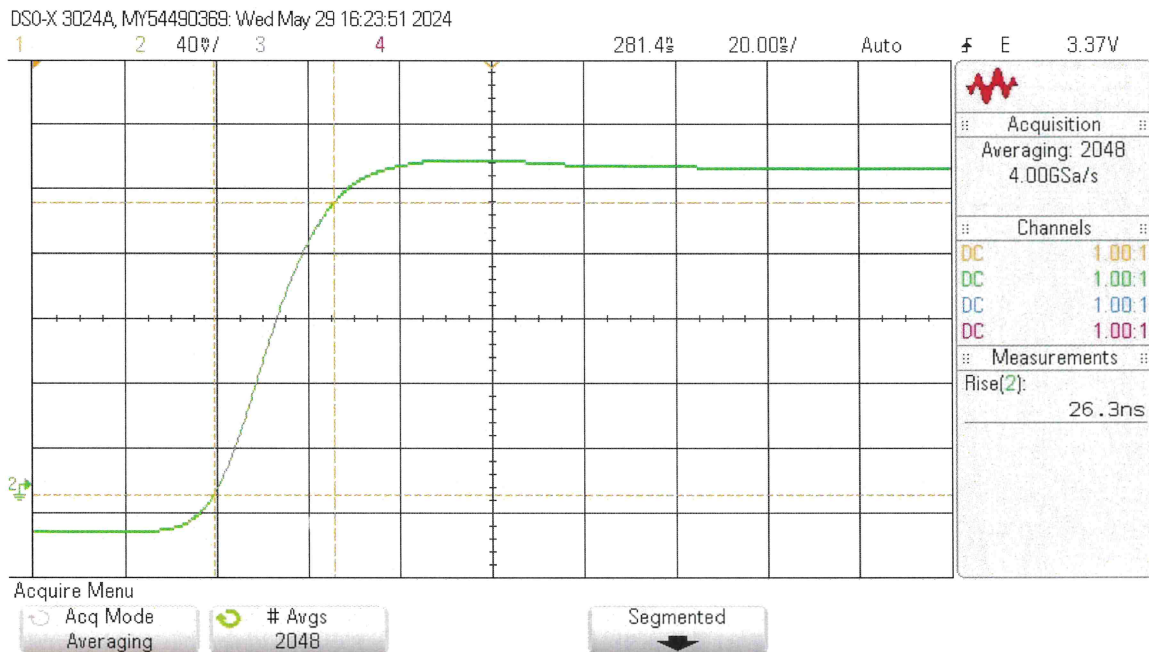


Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)	
2 GHz	INTERCEPT (mV)	4772	221	579	944	1294	1630	1969	2313	2681	3043	3393	3739	4095	4413	4738	Measured Value (mV)
	SLOPE (mV/dB)	69.8	-15	-5	11	12	-1	-11	-16	3	16	17	14	21	-10	-34	ERROR (mV)
	MAX LIN ERROR	0.49	-0.21	-0.08	0.15	0.17	-0.02	-0.16	-0.23	0.04	0.23	0.24	0.20	0.30	-0.14	-0.49	LINEARITY ERROR (dB)
	MAX ACC ERROR	0.77	0.27	0.39	0.62	0.64	0.45	0.31	0.24	0.51	0.70	0.71	0.67	0.77	0.33	-0.02	LOG ACCURACY (dB)
3 GHz	INTERCEPT (mV)	4746	245	624	982	1327	1667	1995	2327	2671	3021	3359	3704	4066	4405	4755	Measured Value (mV)
	SLOPE (mV/dB)	68.8	-30	5	19	20	16	0	-12	-12	-5	-11	-10	8	3	9	ERROR (mV)
	MAX LIN ERROR	0.43	-0.43	0.08	0.28	0.29	0.24	0.01	-0.17	-0.17	-0.08	-0.17	-0.15	0.11	0.04	0.13	LINEARITY ERROR (dB)
	MAX ACC ERROR	1.17	0.61	1.04	1.17	1.11	0.98	0.68	0.44	0.37	0.38	0.23	0.17	0.36	0.21	0.23	LOG ACCURACY (dB)
4 GHz	INTERCEPT (mV)	4691	176	498	884	1236	1567	1906	2237	2596	2961	3291	3639	4002	4346	4700	Measured Value (mV)
	SLOPE (mV/dB)	69.5	4	-22	17	21	5	-4	-20	-9	8	-9	-9	7	2	9	ERROR (mV)
	MAX LIN ERROR	0.31	0.06	-0.31	0.24	0.31	0.07	-0.06	-0.29	-0.13	0.12	-0.13	-0.13	0.09	0.03	0.13	LINEARITY ERROR (dB)
	MAX ACC ERROR	0.85	-0.38	-0.77	-0.24	-0.19	-0.45	-0.59	-0.85	-0.71	-0.48	-0.75	-0.76	-0.56	-0.65	-0.56	LOG ACCURACY (dB)
5 GHz	INTERCEPT (mV)	4729	191	534	911	1262	1594	1935	2270	2638	3005	3339	3682	4044	4378	4716	Measured Value (mV)
	SLOPE (mV/dB)	69.7	-8	-14	15	17	1	-7	-20	0	18	4	-2	12	-3	-13	ERROR (mV)
	MAX LIN ERROR	0.29	-0.12	-0.20	0.21	0.25	0.01	-0.09	-0.29	-0.01	0.26	0.05	-0.03	0.17	-0.04	-0.19	LINEARITY ERROR (dB)
	MAX ACC ERROR	0.38	-0.16	-0.25	0.16	0.18	-0.06	-0.18	-0.38	-0.10	0.15	-0.06	-0.16	0.04	-0.17	-0.33	LOG ACCURACY (dB)

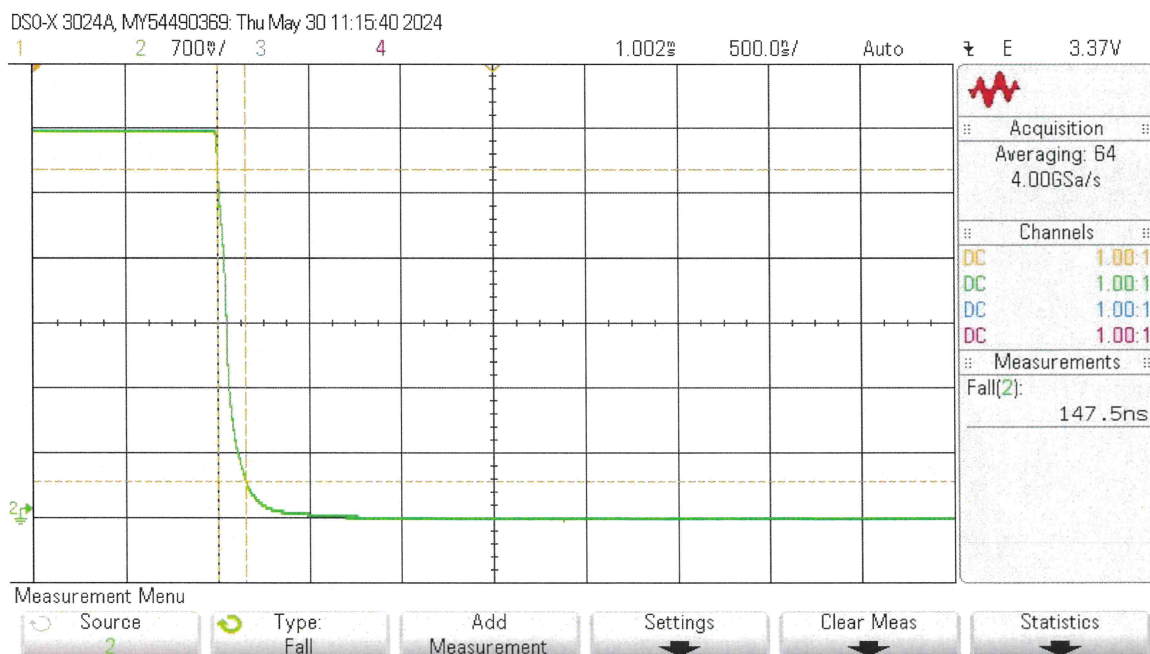


Summary Data For EWDM-2G6G-65-70MV-1

Rise Time



Fall and Recovery Time





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

Settling Time

