



**SUMMARY TEST DATA
ON
SDLVA-50M18G-70**

PL34346/2143

Customer: _____ Tested By: R Combs
SO No: _____ Temperature: +25°C
Model No: SDLVA-50M18G-70 Date: 10/26/21
Serial No: PL34346/2143 Drawing No: 27629813 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	0.05 GHz to 18.0 GHz	0.05 GHz to 18.0 GHz	PMI QA2
2	Frequency Flatness	±2.0 dB Max	±1.2 dB	
3	TSS	-70 dBm Typ	-69.5 dBm	
4	VSWR	2.0:1 Max	1.28:1	
5	Video Comparator Output	5 V into 1 MΩ, 2.5 V into 50 Ω Typ	Pass	
6	Video Comparator Threshold Level	-60 dBm to 0 dBm (Operating Range) Threshold = $V1 \pm 5\%$ & ± 25 mV (Hysteresis)	-60 dBm to 0 dBm	
7	Log Range	-70 dBm to 0 dBm	-70 dBm to 0 dBm	
8	Log Slope	25 mV/dB ±5% @ 50 Ω Load	25.2 mV/dB	
9	Log Linearity	±1.75 dB Max (-60 dBm to 0 dBm)	0.48 dB	
10	Pulse Range	100 ns to DC	Pass	
11	Rise Time	50 ns Max	30.3 ns	
12	Recovery Time	400 ns Max	360 ns	
13	DC Supply	+12 to +15 VDC @ 400mA -12 to -15 VDC @ 200 mA	150 mA 81 mA	PMI QA2

QA/QC Approval:  _____ Date: 10/28/2021



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LOG TRANSFER WITH FREQUENCY @ +25°C
MODEL: SDLVA-50M18G-70
TESTED BY: RCombs
TEST DATE: 10/26/21
SERIAL NO: PL34346
TEST TEMP: +25C

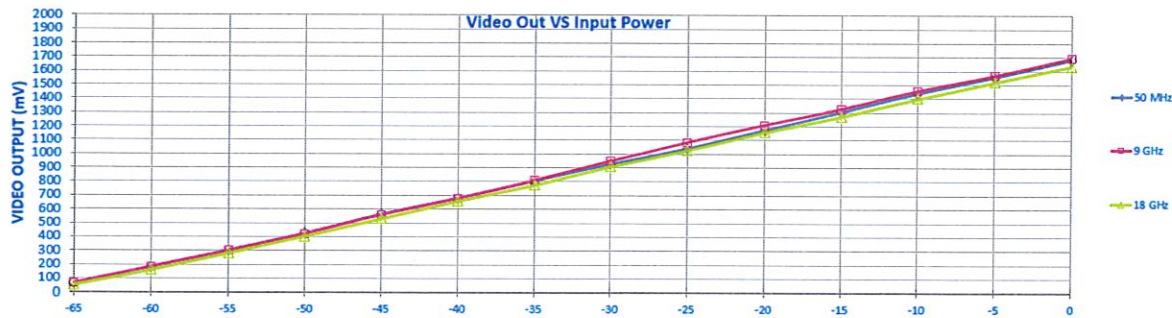
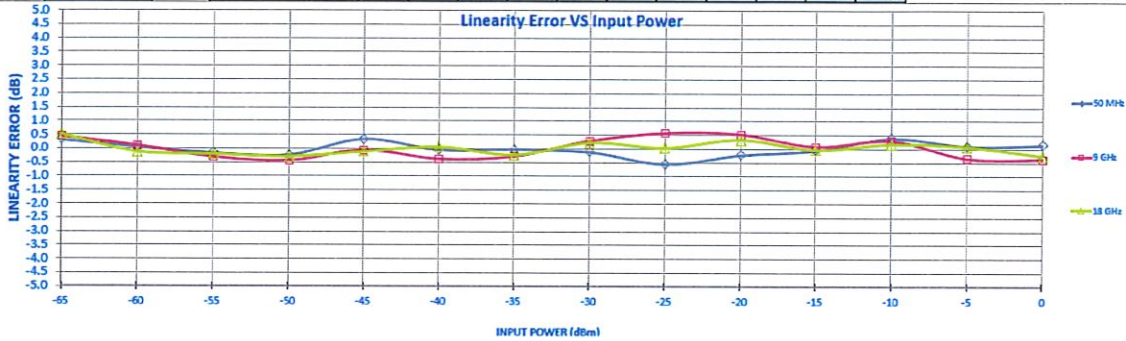
Vos = 25 mV



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Frequency

		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	
50 MHz	INTERCEPT (mV)	67	186	304	427	566	681	805	927	1041	1174	1302	1437	1555	1680	RF Input Power (dBm)
	SLOPE (mV/dB)	8	2	-4	-6	9	-1	-1	-3	-14	-5	-1	10	3	4	Measured Value (mV)
		0.32	0.07	-0.16	-0.23	0.35	-0.04	-0.03	-0.11	-0.55	-0.22	-0.05	0.39	0.11	0.15	Error (mV)
9 GHz	INTERCEPT (mV)	64	182	299	423	559	678	807	949	1083	1209	1325	1457	1568	1694	Measured Value (mV)
	SLOPE (mV/dB)	11	3	-8	-11	-2	-10	-7	7	14	13	2	7	-9	-10	Error (mV)
		0.43	0.10	-0.32	-0.45	-0.07	-0.39	-0.29	0.27	0.56	0.52	0.07	0.29	-0.36	-0.37	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	52	160	281	402	530	657	773	907	1026	1157	1271	1399	1520	1636	Measured Value (mV)
	SLOPE (mV/dB)	12	-3	-5	-7	-3	1	-6	5	1	8	-1	4	2	-6	Error (mV)
		0.49	-0.13	-0.20	-0.30	-0.12	0.05	-0.24	0.20	0.02	0.31	-0.05	0.16	0.07	-0.26	LINEARITY ERROR (dB)
Flatness dB		0.3	0.5	0.5	0.5	0.5	0.7	0.8	1.1	1	1.1	1.1	1.1	0.9	1.2	

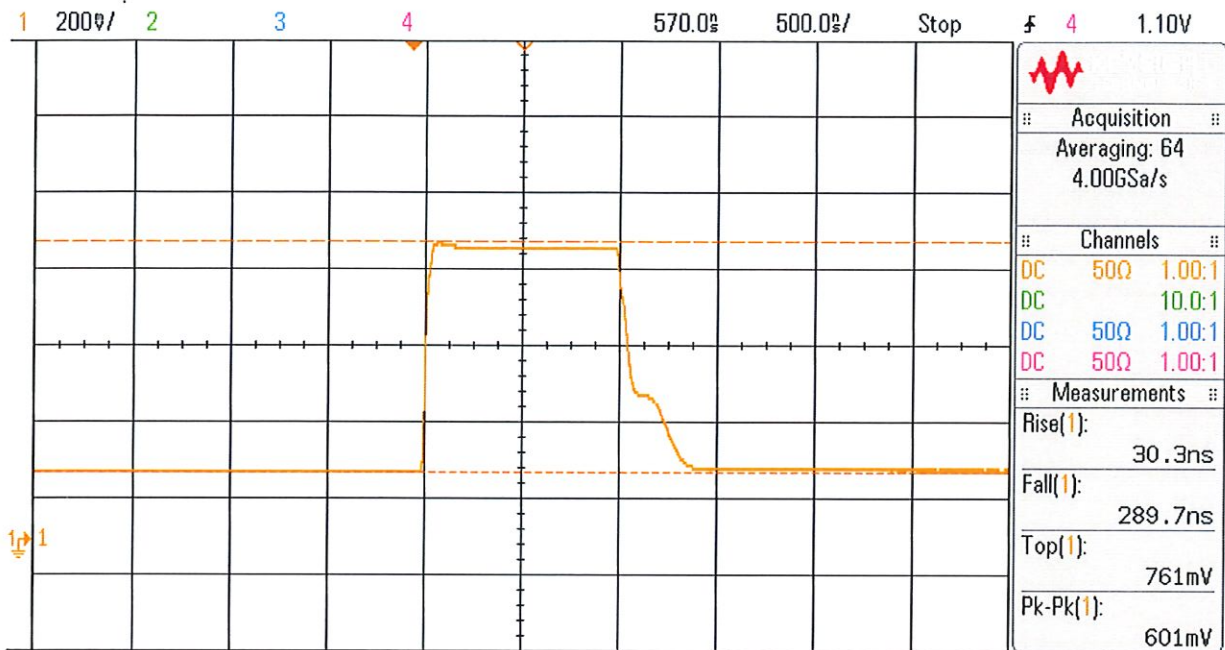




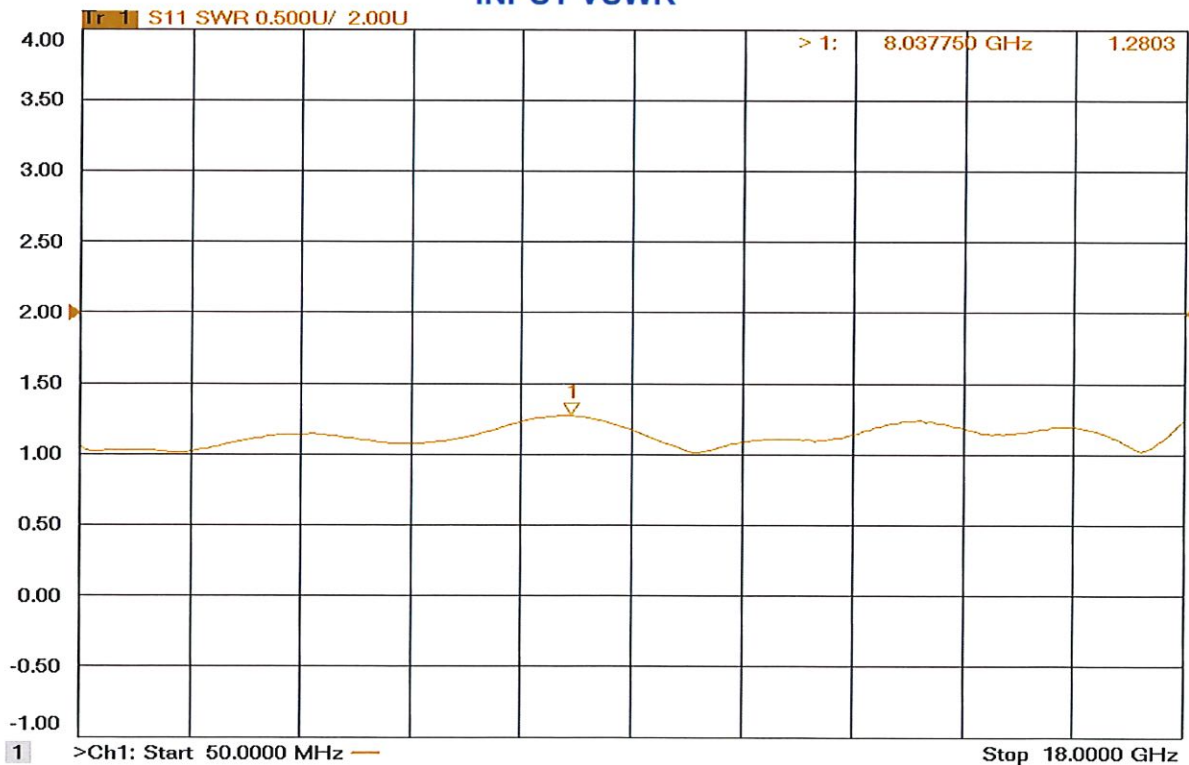
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RISE TIME and RECOVERY TIME



INPUT VSWR





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TSS @ -70 dBm

