



**SUMMARY TEST DATA
ON
SDLVA-100M18G-CW-70-MAH**

PL17145/1517

Customer: _____	Tested By: <u>RCombs</u>	
SO No: _____	Temperature: <u>+25°C</u>	
Model No: <u>SDLVA-100M18G-CW-70-MAH</u>	Date: <u>05/04/15</u>	
Serial No: <u>PL17145/1517</u>	Drawing No: <u>27623180</u>	Rev: <u>A1</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	Frequency Range	100 MHz-18GHz	100 MHz-18GHz	
2	Frequency Flatness	±2.0 dB Max.	±1.0 dB	
3	TSS	-68 dBm Min., -70 dBm Typ.	-68 dBm	
4	Limited Output Power (Input Power ≥ -65dBm)	+8 dBm ±3.0dBm Max.	+5 to +9.7 dBm	
5	VSWR	2.0:1 Max.	1.97:1	
6	Linear Output Gain	43dB ±3.0dB Max.	43.1 to 45.9 dB	
7	Linear Output Psat	+3 dBm ±3.0dB Max.	0.85 to 2.4 dBm	
8	V0 (Video Comparator Signal Amplitude)	3.3V Typ.	2.25V	
9	Video Comparator External Threshold Level	Adjustable with Analog Voltage (2 Times V1)	Adjustable with Analog Voltage(2 Times V1)	
10	Video Comparator Delay	50 ns Typ.	40 ns	
11	V1 (Log Video Signal Amplitude)	1 Volt Max.	0.814 Volts	
12	Log Slope	10mV/dB into a 50Ω load (±1mV) Max.	9.9mV/dB	
13	Log Range	-65 to +5 dBm Min.	-65 to +5 dBm	



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TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
14	Log Linearity	$\pm 1.75\text{dB}$ (-40°C to +85°C) Max.	$\pm 0.98\text{dB}$	
15	Pulse Range	100ns to 250 μs	100ns to 250μs	
16	Rise Time	35ns Max.	22ns	
17	Settling time to $\pm 1\text{dB}$	50ns Typ.	40ns	
18	Recovery Time	350ns Max.	220ns	
19	CW Immunity Range	TSS to -45 dBm (1dB degradation)	0.7dB	
20	Pulse Considered CW	1ms Typ.	0.7ms	
21	Rejection Time	1ms Typ.	0.5ms	
22	Droop	1dB Max.	0dB	
23	SPST Isolation	70dB Typ.	$\geq 70\text{dB}$	
24	SPST Switch Speed	20ns Typ.	20ns Typ.	
25	Power Supply	$\pm 12\text{VDC}$ to $\pm 15\text{VDC}$	$\pm 12\text{VDC}$ to $\pm 15\text{VDC}$	

QA/QC Approval: _____ Date: _____