



Planar Monolithics Industries, Inc.
7311-F Grove Rd.
Frederick, MD 21704
Ph: (301) 662-5019 Fax: (301) 662-1731
www.pmi-rf.com

Typical Characteristics For DLVA-7M-80-SFF



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Reported by:
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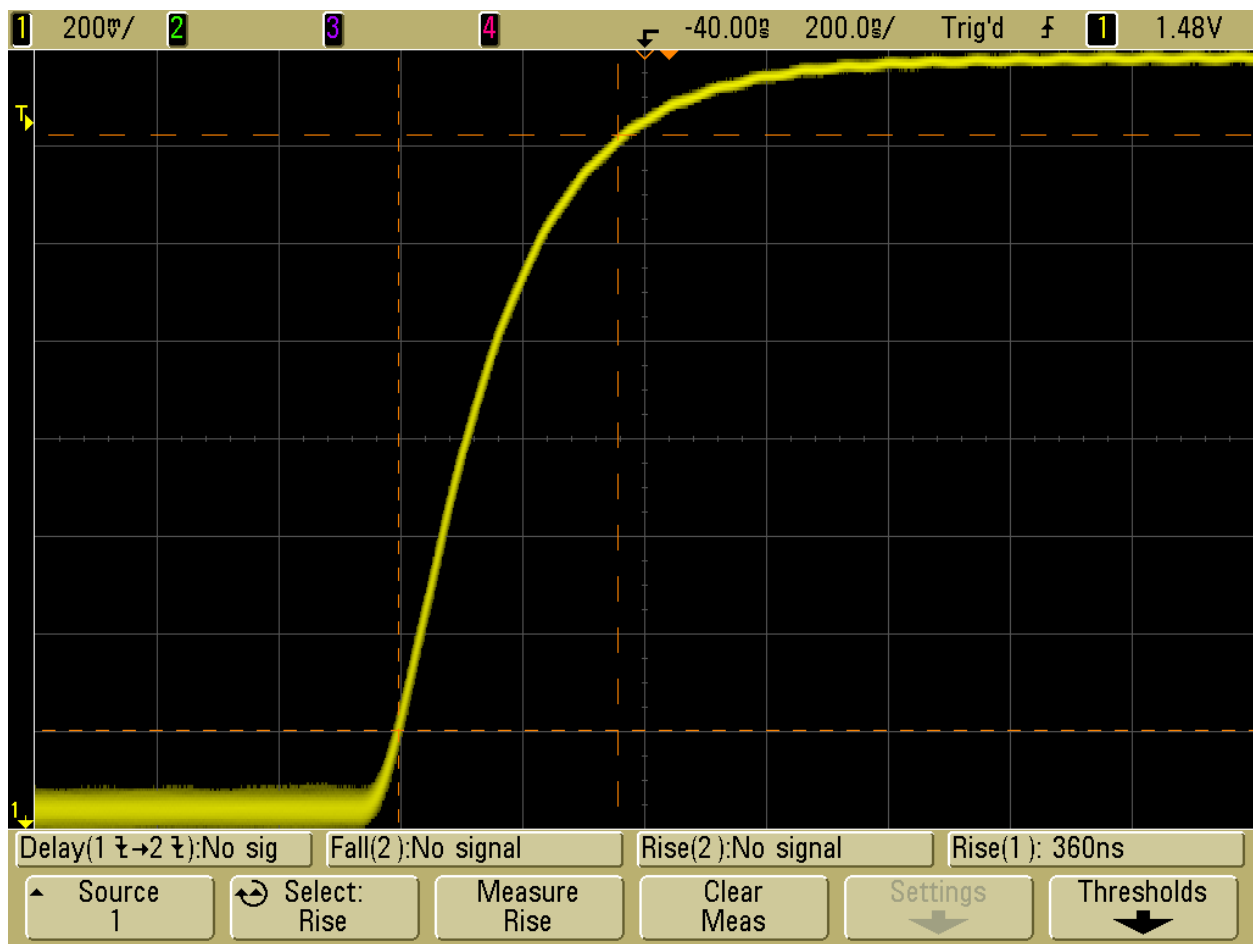
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TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	5.5 MHz TO 8.5 MHz	5.5 MHz TO 8.5 MHz	
2	CENTER FREQUENCY	7 MHz	7 MHz	
3	BANDWIDTH	3 MHz Min	3 MHz	
4	RISE TIME	0.5 us Max	< 360ns	
5	DYNAMIC RANGE	70dB Min, 80dB Typ	80dB	
6	INPUT LOGGING RANGE	-80dBm TO 0 dBm	PASS (SEE PLOT)	
7	LOG VIDEO LINEARITY BEST FIT STRAIGHT LINE (-80 dBm to 0 dBm)	± 1.0 dB (MAX)	+/-0.57dB (SEE PLOT)	
8	SENSITIVITY	25 mV / dB (TYP)	23.89mV/dB (SEE PLOT)	
9	SOURCE IMPEDANCE	50 OHMS	PASS	
10	VIDEO LOAD	93 OHMS	PASS	
11	DC POWER	± 15V(NO LOAD)	± 15V +50mA, -7mA	



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Rise Time (360 ns Typical)



SDLVA DLVA-7M-80-SFF
LOG TRANSFER WITH FREQUENCY



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Power Supply Current
 +15 V 60 mA
 -15 V 5 mA

INPUT POWER (dBm)

-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
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FREQUENCY	5.5 mHz
SLOPE	23.9142 mv/db
INTERCEPT	2012.25 mv

111	205	329	454	581	698	818	942	1056	1178	1299	1413	1536	1655	1768	1893	2008
12	-13	-9	-3	4	1	2	6	0	3	4	-1	2	1	-5	0	-4

Measured Values (mv)	
Log Linearity (dB)	± 0.55

FREQUENCY	7 mHz
SLOPE	23.8929 mv/db
INTERCEPT	2011.63 mv

112	207	331	455	582	698	819	943	1056	1178	1299	1413	1536	1654	1768	1893	2008
11	-12	-8	-3	4	1	2	6	0	2	4	-1	2	1	-5	1	-4

Measured Values (mv)	
Log Linearity (dB)	± 0.52

FREQUENCY	8.5 mHz
SLOPE	23.8992 mv/db
INTERCEPT	2011.62 mv

111	206	329	455	582	698	819	943	1056	1177	1298	1413	1536	1654	1768	1893	2008
12	-14	-9	-3	5	1	2	7	1	2	4	-1	2	1	-5	0	-4

Measured Values (mv)	
Log Linearity (dB)	± 0.57

