SUMMARY TEST DATA
ON
SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER
SLVAC-06135M-A08-LA

PL21552/1735

CUSTOMER:		Tested By:	E. Kretz		
JOB NO:		Temperature:	+25°C		
MODEL NO:	SLVAC-06135M-A08-LA	Date:	08/31/17		
SERIAL NO:	PL21552/1735	Drawing No:	27610064	Rev:	B1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC	
1	FREQUENCY RANGE	0.6 TO 1.35 GHz	0.6 to 1.35 GHz See Plots	PMI QA 2	
2	DYNAMIC RANGE	>65 dBm	>65 dBm See Plots		
3	INPUT VSWR	1.8:1 (MAXIMUM) 1.5:1 (TYPICAL)	1.8:1 Max.		
4	LOGGING RANGE	-60 dBm (MIN) -65 dBm (TYP) +5 dBm (MAX) +8 dBm (TYP)	-65 TO +5dBm Min. See Plots		
5	MAXIMUM RF INPUT POWER	+10 dBm	+10 dBm		
6	TANGENTIAL SENSITIVITY	- 65 dBm (MIN) -70 dBm (TYP)	- 65 dBm (Min)		
7	LOG SLOPE (NO ADJUSTMENT)	25 mV Typical (ADJUSTABLE TO 30mV)	24.6mV TO 29.5mV See Plots		
8	LOG LINEARITY @-60 to 0 dBm @-65 to +5 dBm	±1.2 dB (MAX) ±1.5 dB (MAX)	±0.8 dB @-60 to 0 dBm ±1.2 dB @-65 to +5 dBm See Plots		
9	RISE TIME (10% TO 90% POINTS)	25 ns (MAX)	20ns		
10	FALL TIME (90% TO 10% POINTS)	30 ns (MAX)	28ns		
11	SETTLING TIME	40ns (MAX)	28ns	PMI QA 2	

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
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12	OUTPUT VOLTAGE	2.7V (MAX)	2.27V	PMI QA 2
13	DC OFFSET	EXTERNALLY ADJUSTABLE	PASS	
14	LOG SLOPE VARIATION WITH FREQUENCY	±0.7mV/dB (MAX) (Over any 80MHz RF bandwidth from750MHz to 1350MHz) ±1.0mV/dB (MAX) (Over any 80MHz RF bandwidth from600MHz to 750MHz	±0.35mV/dB ±0.45mV/dB See Plots	
15	LOG SLOPE VARIATION WITH TEMPERATURE	±1mV (MAX)	±1mV	
16	PROPAGATION DELAY	10ns (MAX) 7ns (TYP)	8ns	
17	LIMITED IF OUTPUT	-18 dBm (min) -55 to +5 dBm	-17.10 dBm See Plots	
18	VIDEO LOAD (PROPERLY TERMINATED)	100 OHMS (min)	100 OHMS	
19	DC POWER @ +5V	30 mA (MAX)	20mA	
20	DC POWER @ -5V	170 mA (MAX)	130mA	
21	WEIGHT	0.2oz (MAX)	0.15oz	PMI QA 2

QA/QC APPROVAL: PMI QA 2 DATED: 9/1/17

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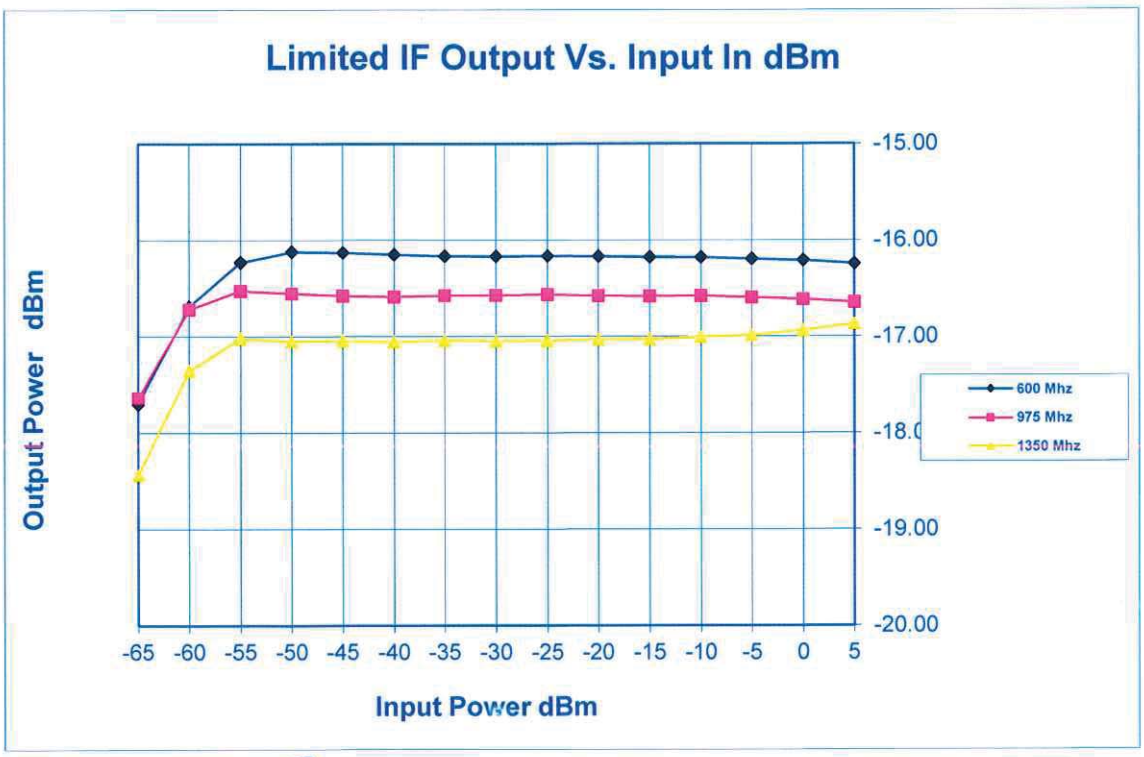
EMAIL: SALES@PMI-RF.COM
ISO 9001 CERTIFIED

LIMITED OUTPUT WITH FREQUENCY AND POWER

Customer: Northrop Grumman MD
Job No:
Part No:
Model No: SLVAC-06135M-MA08
Serial No: PL21552/1735

Date: 8/31/2017
Technician: E. Kretz
Temperature: 25°C
Drawing No: 27609103 (REV A2)

Input Power dBm	FREQUENCY 600 MHz	975 Mhz	1350 Mhz
5	-16.25	-16.64	-16.87
0	-16.21	-16.61	-16.93
-5	-16.20	-16.59	-16.99
-10	-16.18	-16.58	-17.00
-15	-16.18	-16.58	-17.02
-20	-16.17	-16.58	-17.03
-25	-16.17	-16.56	-17.04
-30	-16.17	-16.57	-17.05
-35	-16.17	-16.57	-17.04
-40	-16.15	-16.58	-17.05
-45	-16.13	-16.58	-17.04
-50	-16.12	-16.55	-17.05
-55	-16.23	-16.53	-17.01
-60	-16.69	-16.72	-17.35
-65	-17.70	-17.64	-18.43



QA/QC

DATE 9/1/17

SDLVA SLVAC-06135M-A08-LA **S/N: PL21552/1735**

LOG TRANSFER WITH FREQUENCY **08/31/17** **+ 25° C**

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INPUT POWER (dBm)	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
FREQUENCY 600 mHz	256	366	506	663	808	951	1112	1248	1404	1555	1696	1861	2004	2165	2284
SLOPE 29.6 mv/db	33	-5	-12	-3	-7	-12	2	-11	-2	0	-7	10	5	18	-10
INTERCEPT 2146.4 mv															

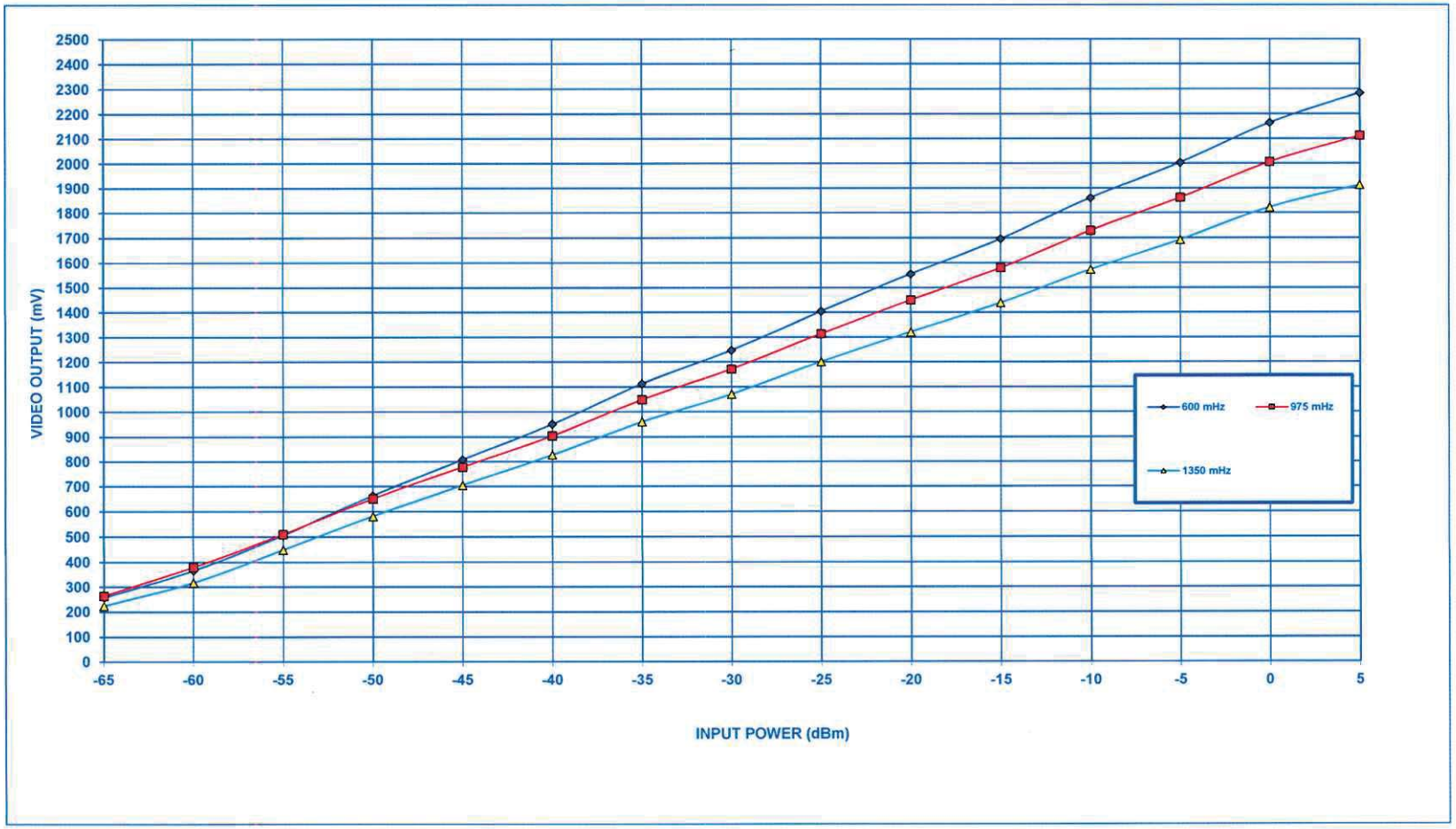
Linearity Error (-60 TO 0 dBm)	Linearity Error (-65 TO 5 dBm)
±0.6 dB	±1.1 dB

FREQUENCY 975 mHz	263	379	510	651	778	904	1049	1171	1314	1450	1580	1729	1862	2006	2112
SLOPE 26.8 mv/db	18	-1	-4	3	-3	-12	-1	-12	-4	-2	-7	9	7	18	-10
INTERCEPT 1988.3 mv															

Linearity Error (-60 TO 0 dBm)	Linearity Error (-65 TO 5 dBm)
±0.7 dB	±0.7 dB

FREQUENCY 1350 mHz	224	317	449	581	705	827	960	1071	1201	1322	1439	1573	1692	1822	1913
SLOPE 24.6 mv/db	13	-17	-9	1	1	0	10	-2	5	2	-4	8	4	11	-22
INTERCEPT 1811.6 mv															

Linearity Error (-60 TO 0 dBm)	Linearity Error (-65 TO 5 dBm)
±0.7 dB	±0.9 dB



TEST TECH:
E. Kretz

DATE:
8/31/2017

SERIAL NO:
PL21552/1735

Frequency	Input Power	Output Power		Video Output (Millivolts)	Corrected Output Power (dBm)
600	-65	-18.4011544	0.2561	256	-17.70
600	-60	-17.3904666	0.3659	366	-16.69
600	-55	-16.9329654	0.5064	506	-16.23
600	-50	-16.8228786	0.6633	663	-16.12
600	-45	-16.8321774	0.808	808	-16.13
600	-40	-16.8502873	0.9506	951	-16.15
600	-35	-16.8684479	1.1125	1112	-16.17
600	-30	-16.869726	1.2477	1248	-16.17
600	-25	-16.8674652	1.4044	1404	-16.17
600	-20	-16.869059	1.5546	1555	-16.17
600	-15	-16.8779575	1.6956	1696	-16.18
600	-10	-16.8822614	1.8608	1861	-16.18
600	-5	-16.8977752	2.0039	2004	-16.20
600	0	-16.9134829	2.1647	2165	-16.21
600	5	-16.9453248	2.2844	2284	-16.25
975	-65	-18.3359674	0.2634	263	-17.64
975	-60	-17.4151873	0.379	379	-16.72
975	-55	-17.2250751	0.5101	510	-16.53
975	-50	-17.2533094	0.6511	651	-16.55
975	-45	-17.276195	0.7785	778	-16.58
975	-40	-17.2839205	0.9041	904	-16.58
975	-35	-17.2715872	1.049	1049	-16.57
975	-30	-17.2717816	1.1715	1171	-16.57
975	-25	-17.2638345	1.3143	1314	-16.56
975	-20	-17.276046	1.4499	1450	-16.58
975	-15	-17.2796213	1.5795	1580	-16.58
975	-10	-17.276509	1.7291	1729	-16.58
975	-5	-17.2927807	1.8616	1862	-16.59
975	0	-17.3096216	2.0063	2006	-16.61
975	5	-17.3405344	2.1123	2112	-16.64
1350	-65	-19.1331029	0.2239	224	-18.43
1350	-60	-18.0516207	0.317	317	-17.35
1350	-55	-17.7149251	0.4487	449	-17.01
1350	-50	-17.7476438	0.5811	581	-17.05
1350	-45	-17.7379601	0.705	705	-17.04
1350	-40	-17.7514973	0.8267	827	-17.05
1350	-35	-17.7377005	0.9598	960	-17.04
1350	-30	-17.7455114	1.071	1071	-17.05
1350	-25	-17.7390761	1.2007	1201	-17.04
1350	-20	-17.7270263	1.3216	1322	-17.03
1350	-15	-17.7249305	1.4385	1439	-17.02
1350	-10	-17.7025881	1.5729	1573	-17.00
1350	-5	-17.6870326	1.6921	1692	-16.99
1350	0	-17.6344852	1.8221	1822	-16.93
1350	5	-17.5663417	1.9132	1913	-16.87

Frequency 600

±0.5 dB

Frequency 975

±0.5 dB

Frequency 1350

±1.1 dB