DESCRIPTION

PMI MODEL DLVA HADA-D2002 IS A DETECTOR LOG VIDEO AMPLIFIER (DLVA) THAT OPERATES BETWEEN THE 2.0GHz TO 18.0GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 40 dB, A LOG SLOPE OF 50mV/dB, AND A NOMINAL VIDEO BANDWIDTH OF 12MHz. FURTHERMORE IT HAS BEEN DESIGNED USING CUTTING EDGE TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE MAKING IT AN OPTIMUM SOLUTION FOR HIGH SPEED CHANNELIZED RECEIVER APPLICATIONS.

SPECIFICATIONS

FALL TIME ——

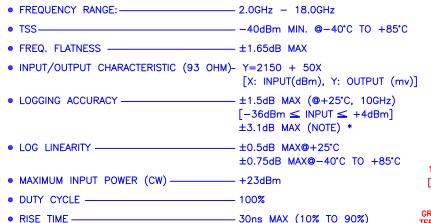
DC_OFFSET —

INPUT VSWR —

POWER SUPPLY-

PROPAGATION DELAY

(INPUT 50 OHMS TERMINATED)



INPUT) (90% TO 10%)

+95mV +55/-100mV

- 3.0:1 MAX @+23dBm

-+12VDC ±1VDC @ 125mA MAX -12VDC ±1VDC @ 75mA MAX

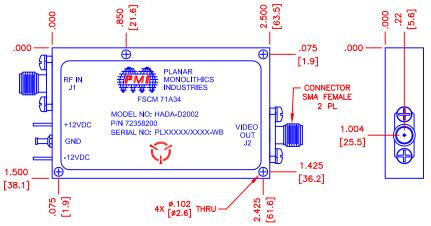
 $(@-40^{\circ}C TO +85^{\circ}C)$

-60n SEC MAX

.000 .41 [10.4] À .883 [22.4] 1.075 [27.3] 1.267 [32.2] GROUND-SOLDER TERMINAL FEEDTHRU 2 PL -500ns MAX (@ PULSE WIDTH 100usec .440 [11.2] .15 [3.8]

REVISIONS ZONE REV. DESCRIPTION APPROVED A1 ORIGINAL RELEASE 10/09/13 A2 9/19/14 ECN # 14-0156 A3 15 - 015211/06/15 Α4 19-0035 1/23/19

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC

4921 ROBERT J. MATHEWS PKWY SUITE 1 EL DORADO HILLS, CA 95762 USA TEL: 916-542-1401 FAX: 916-265-2597 WEBSITE: www.pmi-rf.com E-MAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



		TITLE								
APPROVALS	DATE			PR	ODUC	T FEATL	JRE			
DRAWN J. LUDDEN	10/09/13			DLV	A HA	ADA-D2	002			
CHECKED		SIZE	FSCM NO.		DWG NO.					TF
ICCUITO		Α	714	434		DWGOO	0131			A
ISSUED		SCALE N:S					SHEET	1	OF	2

• WARM UP TIME — 2 MINUTES MAX
MECHANICAL REQUIREMENTS ————————————————————————————————————
FINISH — NICKEL PLATING
 *NOTES: INCLUDES FREQ. FLATNESS. INPUT POWER, TEMPERATURE DEVIATION DEVIATION AND DEVIATION FOR DC OFFSET. THE TEST SHALL BE PERFORMED USING RG-62 (OR EQUIV.), 5 METER, 93±0.5 OHMS TERMINATED. ENVIRONMENTAL RATINGS
• TEMPERATURE: — -40°C TO + 85°C (OPERATING) -57°C TO +85°C (STORAGE)
• HUMIDITY :
• SHOCK: 30G, MIL-STD-202F, METHOD 213 COND. C
• VIBRATION: 10 TO 55Hz (0.06DA), 55 TO 2000Hz (10G) MIL-STD-202F, METHOD 204 COND.C
• ALTITUDE: 20,000 FEET, MIL-STD-202F, METHOD 105
• HEAT SHOCK: — MIL-STD-202F, METHOD 107 COND. A1
NDTE: SPECIFICATIONS WILL VARY DIVER OPERATING TEMPERATURE NDTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES TOLERANCES: X.XX ±0.020 X,XXX ±0,010

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		REVISIONS		
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	Α1	ORIGINAL RELEASE	10/09/13	
	A2	ECN # 14-0156	9/19/14	
	Α3	ECN # 15-0152	11/06/15	
	Δ4	FCN # 19-0035	1/23/19	

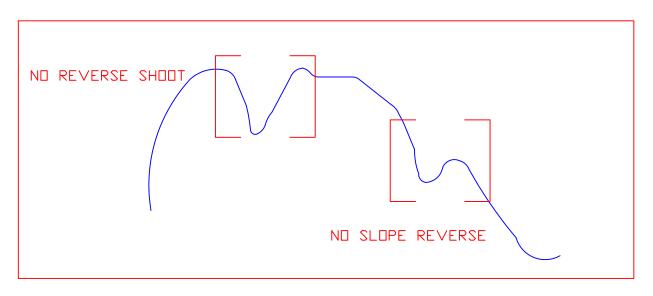


FIGURE 1: REVERSE SLOPE GRAPH

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APPROVALS DATE I. LUDDEN CHECKED ALL DIMENSIONS ARE IN INCHES TOLERANCES:

PRODUCT FEATURE DLVA HADA-D2002

10/09/13 SIZE FSCM NO. 71A34 DWG000131 **A4** ISSUED SCALE N:S 2 OF 2

X.XX ±0.020 X.XXX ±0.010