

DESCRIPTION

PMI MODEL DLVA HADA-D2001 IS A DETECTOR LOG VIDEO AMPLIFIER (DLVA) THAT OPERATES BETWEEN THE 500MHz TO 2000MHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 40 dB, A LOG SLOPE OF 50mV/dB, AND A NOMINAL VIDEO BANDWIDTH OF 20MHz. 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

- FREQUENCY RANGE: 0.5GHz – 2.0GHz
- TSS: -44dBm MIN. @-40°C TO +85°C
- FREQ. FLATNESS: ±0.75dB MAX
- INPUT/OUTPUT CHARACTERISTIC (93 OHM): Y=2350 + 50X
[X: INPUT(dBm), Y: OUTPUT (mv)]
- LOGGING ACCURACY: ±1.4dB MAX (@+25°C, 1.0GHz) *
[-40dBm ≤ INPUT ≤ 0dBm]
±2.2dB MAX (NOTE)
- LOG LINEARITY: ±0.5dB MAX@+25°C
±0.75dB MAX@+40°C TO +85°C
- MAXIMUM INPUT POWER (CW): +23dBm
- DUTY CYCLE: 100%
- RISE TIME: 30ns MAX (10% TO 90%)
- FALL TIME: 500ns MAX (@ PULSE WIDTH 100usec INPUT) (90% TO 10%)
- DC OFFSET: +95mV +55/-100mV
(INPUT 50 OHMS TERMINATED)
@40°C TO +85°C
- INPUT VSWR: 2.5:1 MAX @+23dBm
- PROPAGATION DELAY: 60n SEC MAX
- POWER SUPPLY: +12VDC ±1VDC @ 100mA MAX
- WARM UP TIME: 2 MINUTES MAX
- MECHANICAL REQUIREMENTS: SIZE: PER FIGURE.
WEIGHT: 150 GRAMS MAX.
- *NOTES: INCLUDES FREQ. FLATNESS, INPUT POWER, TEMPERATURE DEVIATION DEVIATION AND DEVIATION FOR DC OFFSET. THE TEST SHALL BE PERFORMED USING RG-316 (OR EQUIV.), 20cm, 93±0.5 OHMS TERMINATED.

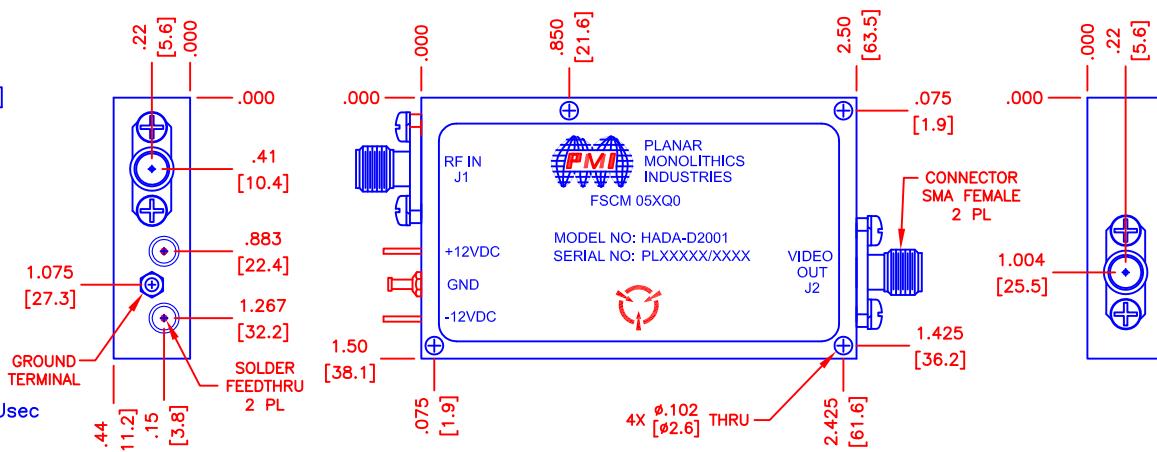
ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +85°C (OPERATING)
-57°C TO +85°C (STORAGE)
- HUMIDITY: 90% TO 98% RH MIL-STD-202F, METHOD 106
- 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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	10/01/13	

MECHANICAL OUTLINE



ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
XXX ±0.020
XXXX ±0.010

APPROVALS		DATE		TITLE			PRODUCT FEATURE				
DRAWN	SUDDEN	10/01/13		FSCM 05XQ0			DLVA HADA-D2001				
CHECKED				SIZE			DWG NO.		REV.		
ISSUED			A 05XQ0			DWG000129			A		
SCALE N:S			SHEET 1 OF 1								



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

PMI CONFIDENTIAL AND PROPRIETARY