

PMI MODEL DLVA-0R52-60-30MV IS A DETECTOR LOG VIDEO AMPLIFIER (DLVA) THAT IS A FORM, FIT, AND FUNCTION REPLACEMENT FOR THE LORAL 342057. THIS DLVA OPERATES BETWEEN THE 0.5GHz TO 2.0GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 60 dB, A LOG SLOPE OF 30mV/dB, AND A NOMINAL VIDEO BANDWIDTH OF 8MHz. 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.

- FREQUENCY RANGE: _____ 0.5 GHz – 2.0GHz
- TSS _____ -43dBm MIN
- LOGARTHMIC RANGE _____ -40 TO +20 dBm
- LOG ACCURACY/LINEARITY _____ ± 1 dB MAX
- LOGARITHMIC SLOPE _____ 30mV/dB INTO 100 ohm
- OUTPUT VOLTAGE _____ 0.7V WITH -40 dBm AND 2.5V
WITH + 20 dBm; 100 ohm LOAD
- FREQUENCY FLATNESS _____ ± 0.75 dB
- RISE TIME _____ 40nS MAX
- SETTLING TIME _____ 50 nS to 0.5dB
- RECOVERY TIME _____ 500 nS; 20 dBm TO -40dBm
- VIDEO BANDWIDTH _____ DC-8MHz
- INPUT VSWR _____ 2.0:1
- MAXIMUM SOURCE VSWR _____ 2.5:1 MAX
- MAXIMUM INPUT POWER _____ +27 dBm 4 X
- STABILITY _____ UNCONDITIONAL UP TO 15 FT OF
- POWER _____ +15VDC,300ma; -15VDC,200ma
- RF AND VIDEO CONNECTORS _____ SMA F INPUT AND OUTPUT

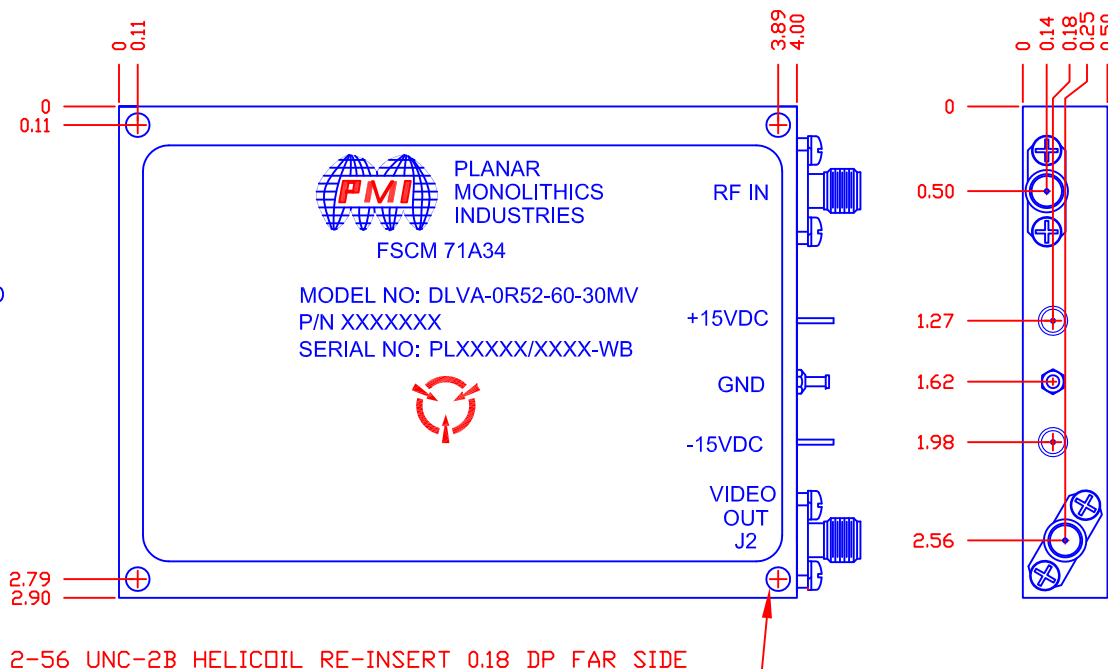
- **TEMPERATURE:** _____ -0°C TO + 70°C (OPERATING)
_____ -65°C TO +125°C (STORAGE)
- **HUMIDITY:** _____ MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** _____ MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:** _____ MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:** _____ MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:** _____ MIL-STD-202F, METHOD 107D COND. A

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

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/10/10	JM

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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		TITLE PRODUCT FEATURE DLVA-0R52-60-30MV			
APPROVALS	DATE				
DRAWN <i>GJR</i>	<i>7/19/19</i>				
CHECKED					
ISSUED		SIZE A	FSCM NO. 71A34	DWG NO. PRELIMINARY	REV A1
		SCALE N:S		SHEET 1 OF 1	