

DESCRIPTION

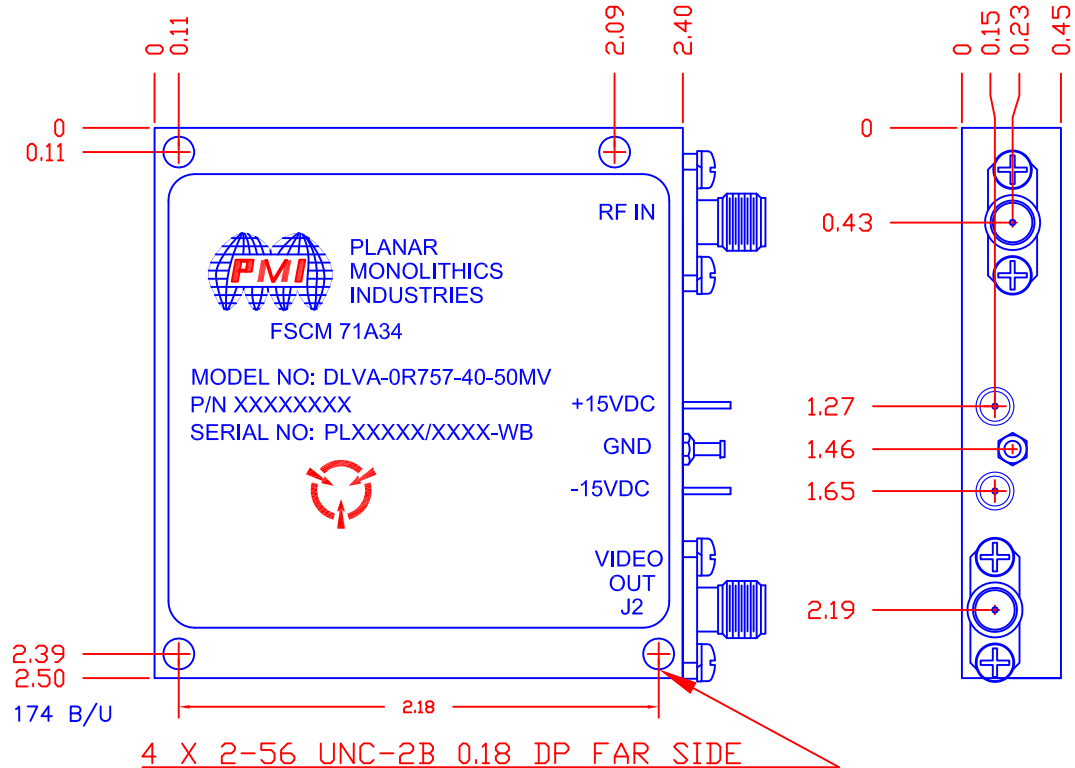
PMI MODEL DLVA-0R757-40-50MV IS A DETECTOR LOG VIDEO AMPLIFIER (DLVA) THAT IS A FORM, FIT, AND FUNCTION REPLACEMENT FOR THE LORAL 342062. THIS DLVA OPERATES BETWEEN THE 0.75GHZ TO 7.0GHZ FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 40 dB, A LOG SLOPE OF 50mV/dB, AND A NOMINAL VIDEO BANDWIDTH OF 20MHZ. 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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/19/19	JM

SPECIFICATIONS

- FREQUENCY RANGE: 0.75 GHz – 7.0GHz
- TSS -45dBm MIN
- LOGARTHMIC RANGE -40 TO 0 dBm
- LOG ACCURACY/LINEARITY ±1dB MAX
- LOGARITHMIC SLOPE 50mV/dB INTO 100 ohm
- OUTPUT VOLTAGE 0.1V WITH -40 dBm AND 2.1V WITH 0 dBm; 100 ohm LOAD
- FREQUENCY FLATNESS ±0.75 dB
- RISE TIME 25nS MAX
- SETTling TIME 35nS to 0.5dB
- RECOVERY TIME 500 nS; 0 dBm TO -40dBm
- VIDEO BANDWIDTH DC-20MHZ
- INPUT VSWR 2.0:1
- MAXIMUM SOURCE VSWR 2.5:1 MAX
- MAXIMUM INPUT POWER +27 dBm
- STABILITY UNCONDITIONAL UP TO 15 FT OF RG 174 B/U
- POWER +15VDC,175ma; -15VDC,175ma
- RF AND VIDEO CONNECTORS SMA F INPUT AND OUTPUT

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- 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

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APPROVALS		DATE	TITLE		
DRAWN <i>YJR</i>		7/19/19	PRODUCT FEATURE DLVA-0R757-40-50MV		
CHECKED			SIZE A	FSCM NO. 71A34	DWG NO. PRELIMINARY
ISSUED			SCALE N:S		REV. A1
				SHEET	1 OF 1