

DESCRIPTION:

PMI MODEL NO. ERDLVA-218-73-50MV IS A CW IMMUNE ERDLVA (EXTENDED RANGE DETECTOR LOG VIDEO AMPLIFIER). THIS UNIT OPERATES FROM 2.0 TO 18.0 GHz. AND HAS A DYNAMIC RAGE OF 73 dB.

SPECIFICATIONS:

- FREQUENCY:..... 2.0 GHz TO 18.0 GHz
- FREQUENCY FLATNESS:..... ±2dB MAX
- VSWR:..... 2.5:1 MAX
- MAX INPUT LEVEL:..... +20dBm CW
- PULSE RESPONSE:..... PULSE (50ns – 100us)
- TSS:..... -72dBm MAX
- LOG DYNAMIC RANGE:..... -68dBm TO 5dBm
- LOG SLOPE:..... 50mV/dB ±5mV/dB INTO 100 OHMS LOAD
- LOG LINEARITY:..... ±1.5dB MAX
- RISE TIME:..... 25ns MAX
- RECOVERY TIME:..... 400ns MAX
- DC OFFSET:..... +100mV ±75mV
- POWER SUPPLY:..... +12VDC @ 330mA MAX, -12VDC @ 100mA MAX
- CW IMMUNITY:..... TSS TO -40dBm
- BASELINE SHIFT:..... 100mV MAX
- FINISH:..... GOLD PLATING PER MIL-G-45204B

ENVIRONMENTAL RATINGS:

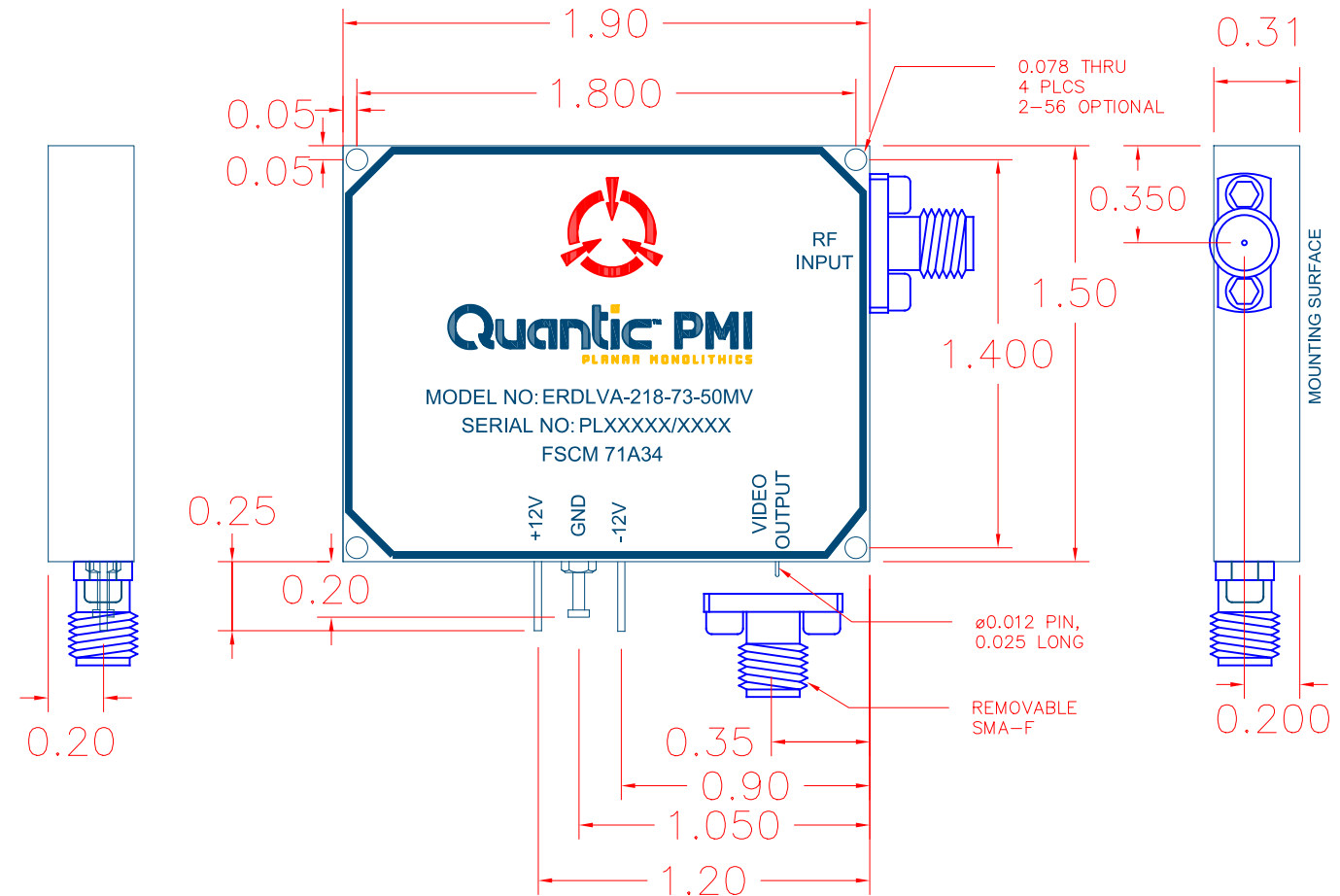
- TEMPERATURE:..... -30°C TO +85°C (OPERATING)
-30°C TO +100°C (STORAGE)
- HUMIDITY:..... MIL-STD-810F, METHOD 507.4
- SHOCK:..... MIL-STD-810F, METHOD 516.5
- VIBRATION:..... MIL-STD-810F, METHOD 514.5
- SALT & FOG:..... MIL-STD-810F, METHOD 509

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	12/20/23	
	A2	ECN # 25-0234	8/14/25	
	A3	ECN # 25-0252	8/27/25	



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APPROVALS		DATE	TITLE		
DRAWN <i>S. AFHAR</i>		12/20/23	OUTLINE ERDLVA-218-73-50MV		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27047720
ISSUED			SCALE N:S	SHEET 1 OF 1	REV. A3