

**DESCRIPTION:**

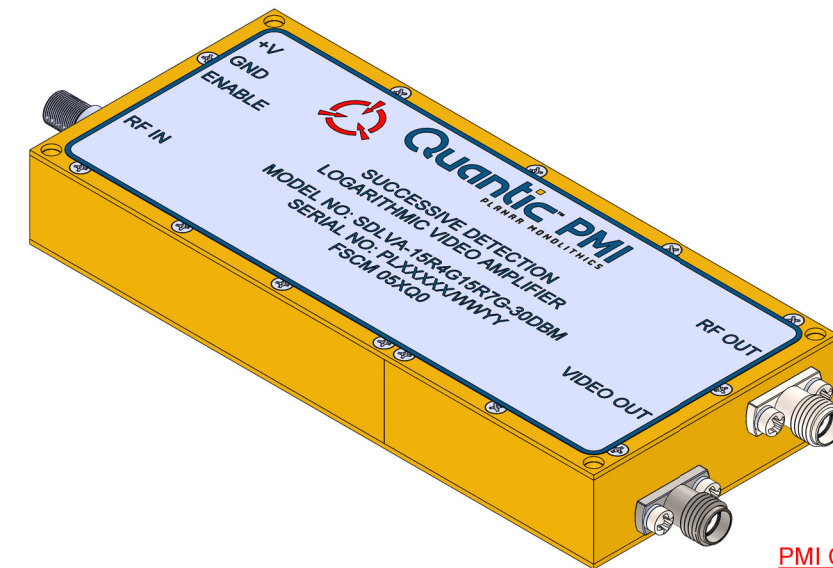
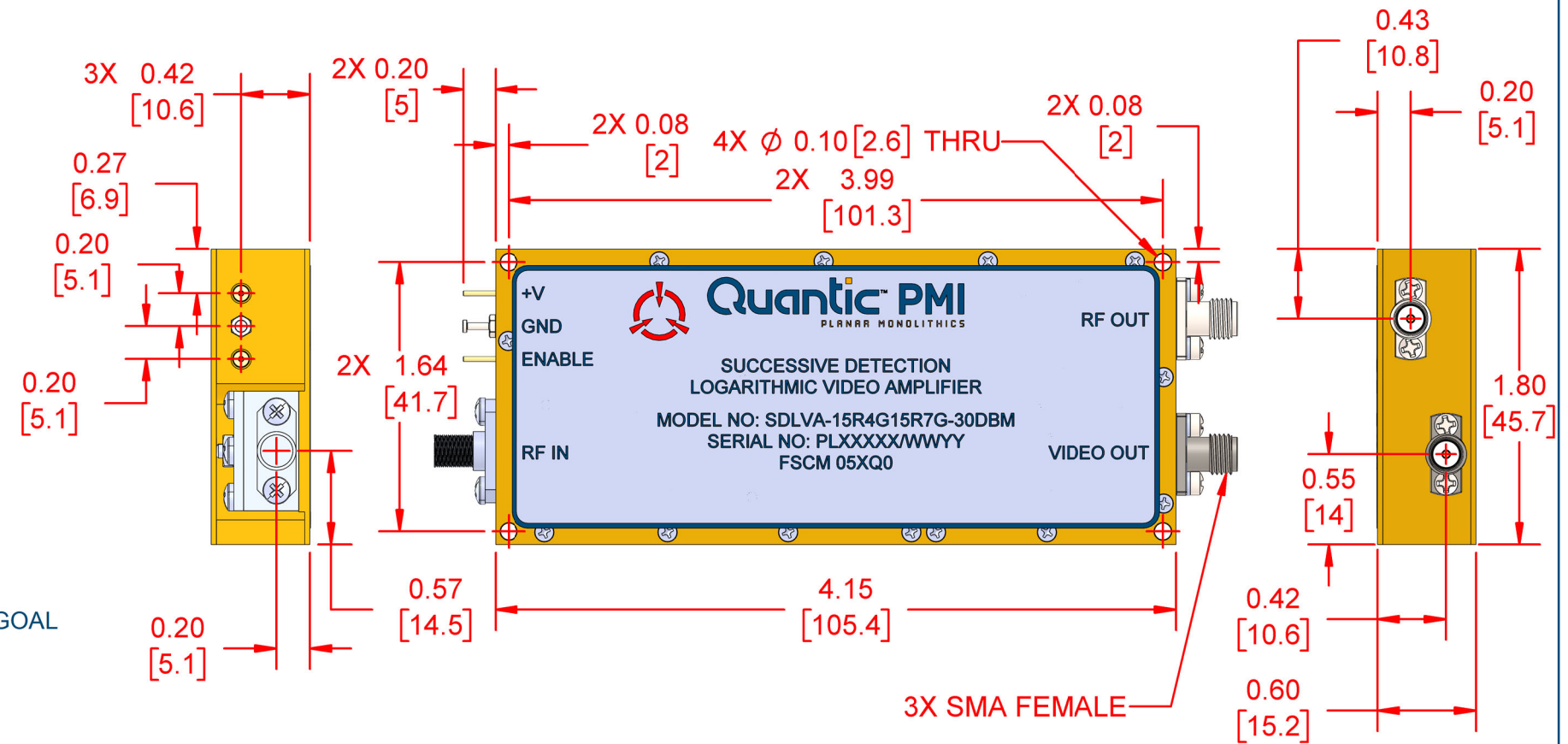
PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER SDLVA-15R4G15R7G-30DBM IS (SUCCESSIVE DETECTION LOGRITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 15.4GHz TO 15.7GHz FREQUENCY RANGE. THIS SDLVA HAS AN INPUT RF FILTER TO LIMIT RF BANDWIDTH, FOLLOWED BY A LIMITER CAPABLE OF HANDLING 1W CW.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/17/2022	

**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 15.4 TO 15.7 GHz
- FILTER REJECTION 30dBc:..... DC TO 14.4GHz & 16.7 TO 20GHz
- TSS:..... -70dBm MIN
- VSWR:..... 2.5:1 MAX
- VIDEO OUTPUT RANGE:..... 0VDC TO 2.2VDC INTO A 50Ω LOAD
- MAX VIDEO OUTPUT:..... 2.4V
- INPUT POWER:..... +30dBm CW MAX
- LOG RANGE:..... -70dBm TO 0dBm
- LOG SLOPE :..... 15mV/Db (±10%) @ 50Ω LOAD
- LOG SLOPE INTERCEPT POINT:..... AT -70dBm RF INPUT  
VIDEO OUT = =350mV (NOM) @ +25°c
- PULSE RANGE:..... 200ns TO CW
- PULSE RISE TIME (10% TO 90%):..... 100ns MAX
- PULSE OVERSHOOT:..... 1dB MAX WITH 50Ω LOAD
- PULSE FALL TIME (90% TO 10%):..... 200ns MAX
- ENABLE:..... TTL "1" ON, TTL "0" STANDBY
- ENABLE RECOVERY TIME:..... TBDns (ENABLE ON TO OUTPUT VALID)
- POWER SUPPLY:..... +12VDC @ 350ma MAX, +9VDC @ 400mA GOAL
- CONNECTORS:..... SMA FEMALE CONNECTORS
- RF OUT:..... TBD
- FINISH:..... GOLD PLATED

**MECHANICAL OUTLINE**



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS    DECIMALS    ANGLES ±            .XX ± 0.02    ± .XXX ± 0.01		APPROVALS		DATE	<b>Quantic PMI</b> PLANAR MONOLITHICS 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019, FAX: (301) 662-1731 WEB: WWW.PMI-RF.COM, EMAIL: SALES@PMI-RF.COM ISO 9001 CERTIFIED
		DRAWN <b>M. HANKEN</b>		10/17/2022	
REISSUED		TITLE		OUTLINE	
ISSUED		SDLVLA-15R4G15R7G-30DBM		SIZE	B
		FSCM NO.	05XQ0	DWG NO.	27044300
		SCALE	1:1	REV.	A1
					SHEET 1 OF 1