

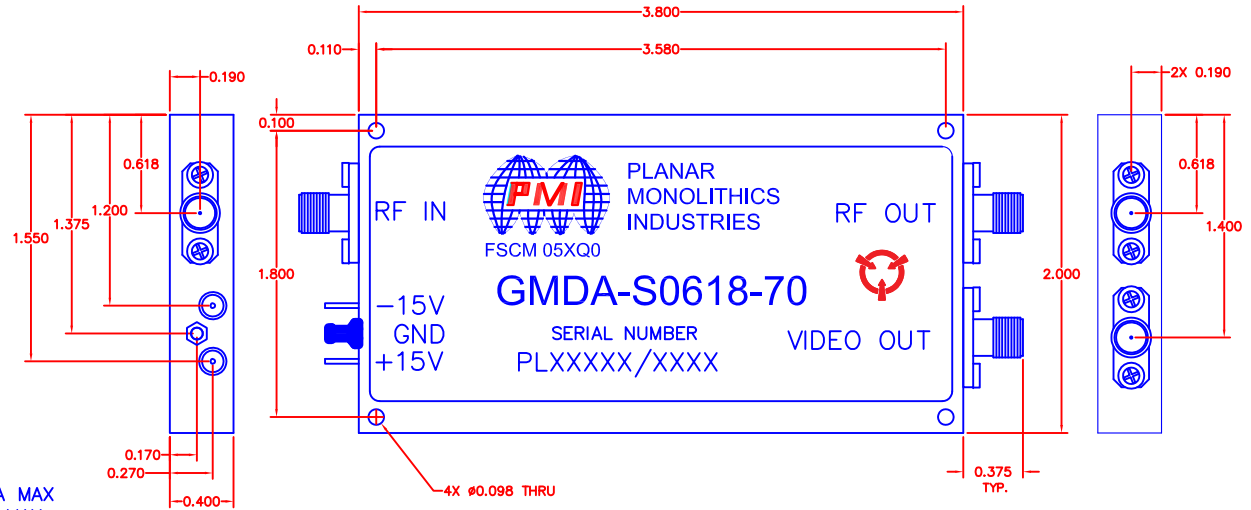
**DESCRIPTION:**

PMI MODEL NO. SDLVA-S0618-70 IS A 6.0 TO 18.0 GHZ HIGH SPEED SLDVA WITH A LOGGING RANGE OF -65 TO +5 DBM, A TSS OF -70 DBM, RISE TIME OF 10 NS, RECOVERY TIME OF 50 NS, A PROPAGATION DELAY OF LESS THAT 25 NS AND A LIMITED RF OUTPUT OF +12DBM +/- 2.0DB. THE DESIGN UTILIZES STATE OF THE ART TECHNOLOGIES TO BRING YOU THE BEST PERFORMANCE AND RELIABILITY.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	01-30-15	
	1	UPDATED TO INCLUDE MORE DETAIL	09-19-19	Edd

**SPECIFICATIONS:**

- FREQUENCY: . . . . . 6.0 GHz TO 18.0 GHz
- LOGGING DYNAMIC RANGE: . . . . . -65dBm TO +5dBm
- LOGGING ACCURACY: . . . . . ±3.0dB MAX (SEE NOTE)
- LOG SLOPE: . . . . . 25mV/dB NOMINAL
- VIDEO RISE TIME . . . . . 10nS
- RECOVERY TIME . . . . . 50nS
- TSS: . . . . . -70dBm
- DC OFFSET . . . . . ±150mV TYP
- PROPAGATION DELAY . . . . . <25nS (RF TO VIDEO)
- VIDEO OUTPUT DRIVE: . . . . . 50 Ohms (SEE NOTE)
- INPUT VSWR . . . . . 2.5:1 MAX
- MAX INPUT LEVEL . . . . . +20dBm CW
- LIMITED RF OUTPUT . . . . . +12dBm ±2.0dB TYP
- POWER SUPPLY . . . . . +12 TO +15VDC @ 700mA MAX  
-12 TO -15VDC @ 80mA MAX
- FINISH . . . . . NICKEL PLATE (AMS 2404)
- COOLING . . . . . CONDUCTION COOLING AT MOUNTING SURFACE



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE . . . . . -55°C TO +85°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 107 COND. A
- NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

**PLANAR MONOLITHICS INDUSTRIES, INC.**  
 7311-F GROVE ROAD  
 FREDERICK, MARYLAND 21704 USA  
 TEL: 301-662-5019 FAX: 301-662-1731  
 WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
 E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
 ISO 9001 CERTIFIED



ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES: X.XX ±0.010  
 X.XXX ±0.005  
 UNLESS OTHERWISE SPECIFIED

APPROVALS		DATE	TITLE			
DRAWN	JS	01/30/15	PRODUCT FEATURE GMDA-S0618-70			
CHECKED	JM	01/30/15	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	1
			SCALE	N:S		SHEET 1 OF 1