

DESCRIPTION

PMI MODEL PAT-3D1G3D5G-CD-SFF IS A VARIABLE ATTENUATOR THAT OPERATES BETWEEN 3.1 AND 3.5 GHz. AT THE LOW LOSS STATE THE INSERTION LOSS IS BETTER THAN 1.1 dB, AND IN THE ATTENUATION STATE THERE IS 30 dB OF LOSS.

SPECIFICATIONS (SUMMARY OF OFFICIAL SPECIFICATIONS PER SCD)

- FREQUENCY RANGE: 3.1 TO 3.5 GHz
- INPUT POWER: +10 dBm CW
- POWER HANDLING: 0.5 W PEAK POWER (WITHOUT DAMAGE) (256 uS PULSE WIDTH AND A 0.04 DUTY FACTOR)
- LOW LOSS STATE:
  - INSERTION LOSS: 1.10 dB MAX
  - VARIATION IN LOSS: ± 0.1 dB OVER ANY 40 MHz
  - VSWR: 1.25 : 1 MAX
  - INSERTION LOSS MATCHING: ± 0.15 dB FROM GOLDEN UNIT
  - PHASE MATCHING: ± 5° FROM GOLDEN UNIT
- ATTENUATION STATE:
  - ATTENUATION: 30 dB ± 1.0 dB
  - VARIATION IN ATTENUATION: ± 0.1 dB OVER ANY 40 MHz
  - VSWR: 1.30 : 1 MAX
  - INSERTION LOSS MATCHING: ± 0.30 dB FROM GOLDEN UNIT
  - PHASE MATCHING: ± 5° FROM GOLDEN UNIT
- SWITCHING SPEED: 0.5 uS MAX
- LOGIC LEVELS:
  - PIN D > PIN E: LOW LOSS STATE
  - PIN E > PIN D: ATTENUATION STATE (INPUT INTO 26LS32 RECEIVER)
- DC POWER SUPPLY:
  - +V: +15V @ 250 mA MAX
  - V: -15V @ 100 mA MAX
- SIZE: 5.87" x 2.50" x 1.40"
- FINISH: PAINTED GRAY

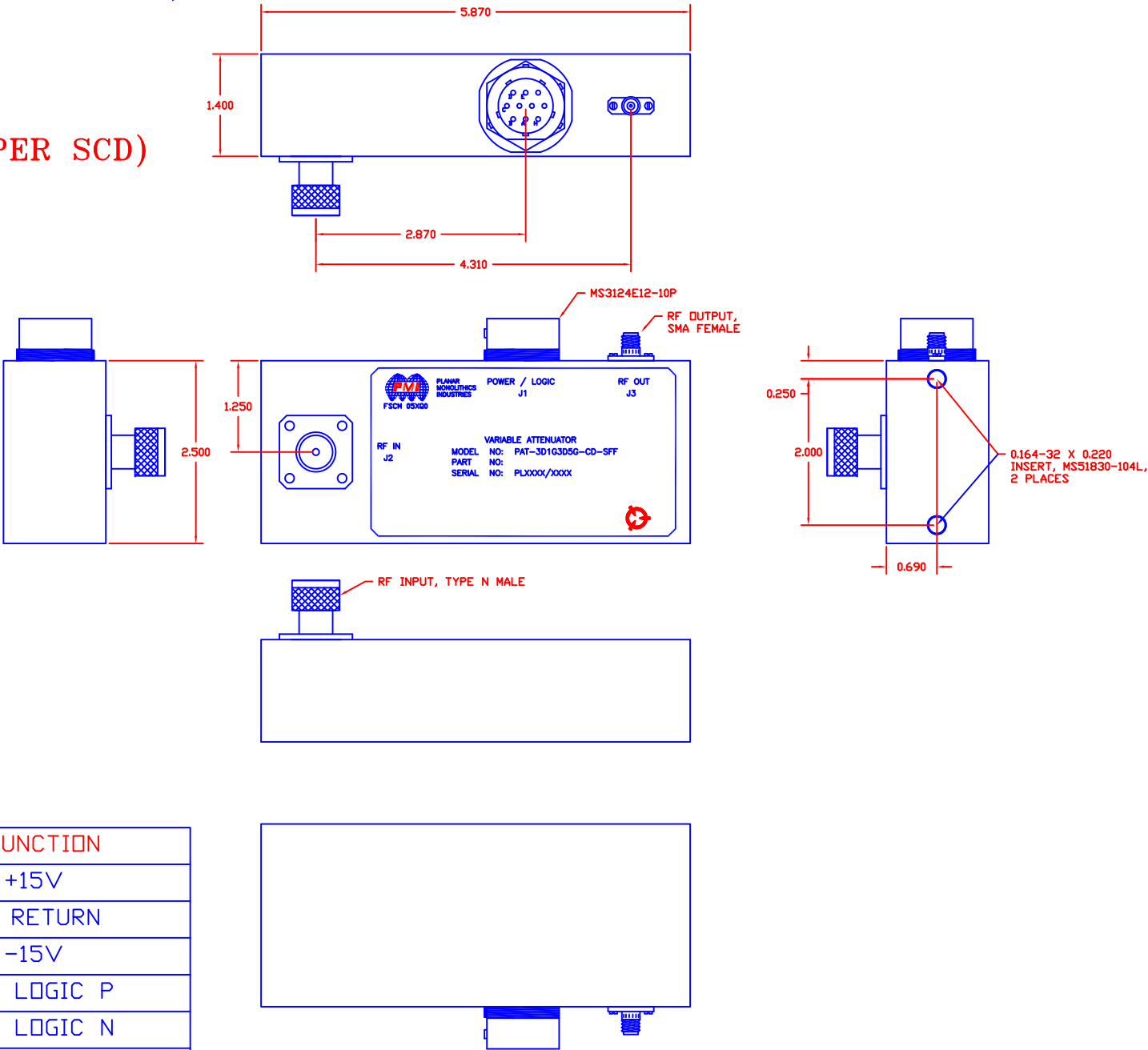
ENVIRONMENTAL RATINGS

- TEMPERATURE: 0°C TO +60°C (OPERATING) -62°C TO +75°C (STORAGE)
- HUMIDITY: 0% TO 95% RELATIVE HUMIDITY
- SHOCK: 50 G, 11 mS SAWTOOTH PULSE, ANY DIRECTION
- VIBRATION: NO RESONANCE BETWEEN 5 TO 25 Hz. NO DEGRADATION FROM CONTINUOUS VIBRATION OF 1.3 G's AT 25 Hz FOR 2 HOURS IN ANY DIRECTION
- 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
	A	ORIGINAL RELEASE	6/22/10	



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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN DPD		6/22/10	OUTLINE DRAWING PAT-3D1G3D5G-CD-SFF		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27013010
ISSUED			REV. A		
			SCALE N: S	SHEET 1 OF 1	