

DESCRIPTION

PMI MODEL PAT-3D1G3D5G-CD-SFF-NF IS A BI-DIRECTIONAL 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) 256us pulse width, 0.06 duty factor.
- LOW LOSS STATE:
 - INSERTION LOSS: -1.10 dB MAX (BI-DIRECTIONAL)
 - VARIATION IN LOSS: ± 0.2 dB OVER ANY 10 MHz
 - VSWR: 1.20 : 1 MAX
 - INSERTION LOSS MATCHING: ± 0.2 dB FROM GOLDEN UNIT
 - PHASE MATCHING: $\pm 3^\circ$ FROM GOLDEN UNIT
- ATTENUATION STATE:
 - ATTENUATION: -30 dB ± 1.0 dB (BI-DIRECTIONAL)
 - VARIATION IN ATTENUATION: ± 0.2 dB OVER ANY 10 MHz
 - VSWR: 1.25 : 1 MAX
 - INSERTION LOSS MATCHING: ± 0.20 dB FROM GOLDEN UNIT
 - PHASE MATCHING: $\pm 3^\circ$ FROM GOLDEN UNIT
- NOISE FIGURE:
 - LOW LOSS STATE: -1.10 dB MAX. (BI-DIRECTIONAL)
 - ATTENUATION STATE: -30 dB ± 1.0 dB MAX.
- 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

PIN	FUNCTION
A	+15V
B	DC RETURN
C	-15V
D	CTL LOGIC P
E	CTL LOGIC N
F	N/C
G	N/C
H	CHASSIS GND
J	N/C
K	N/C

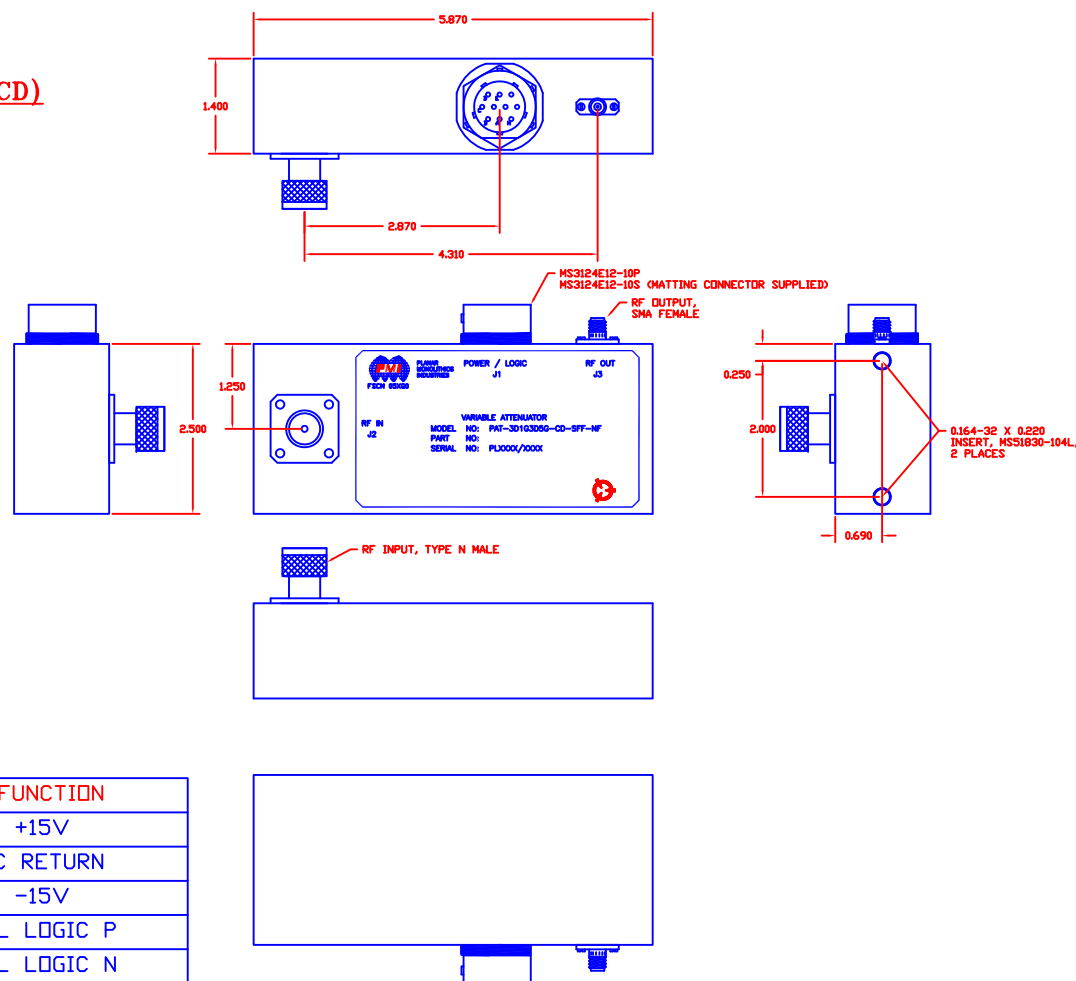
ENVIRONMENTAL RATINGS

- 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
	—	PRELIMINARY	4/7/15	JSP



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