

DESCRIPTION:

PMI MODEL NUMBER PEC-20M3G-8T-SFGM-LV IS A SINGLE POLE, EIGHT THROW NON-REFLECTIVE SWITCH DESIGNED TO OPERATE OVER THE 20MHZ TO 3.0GHZ THS MODEL OFFERS ULTRA LOW VIDEO TRANSIENTS.

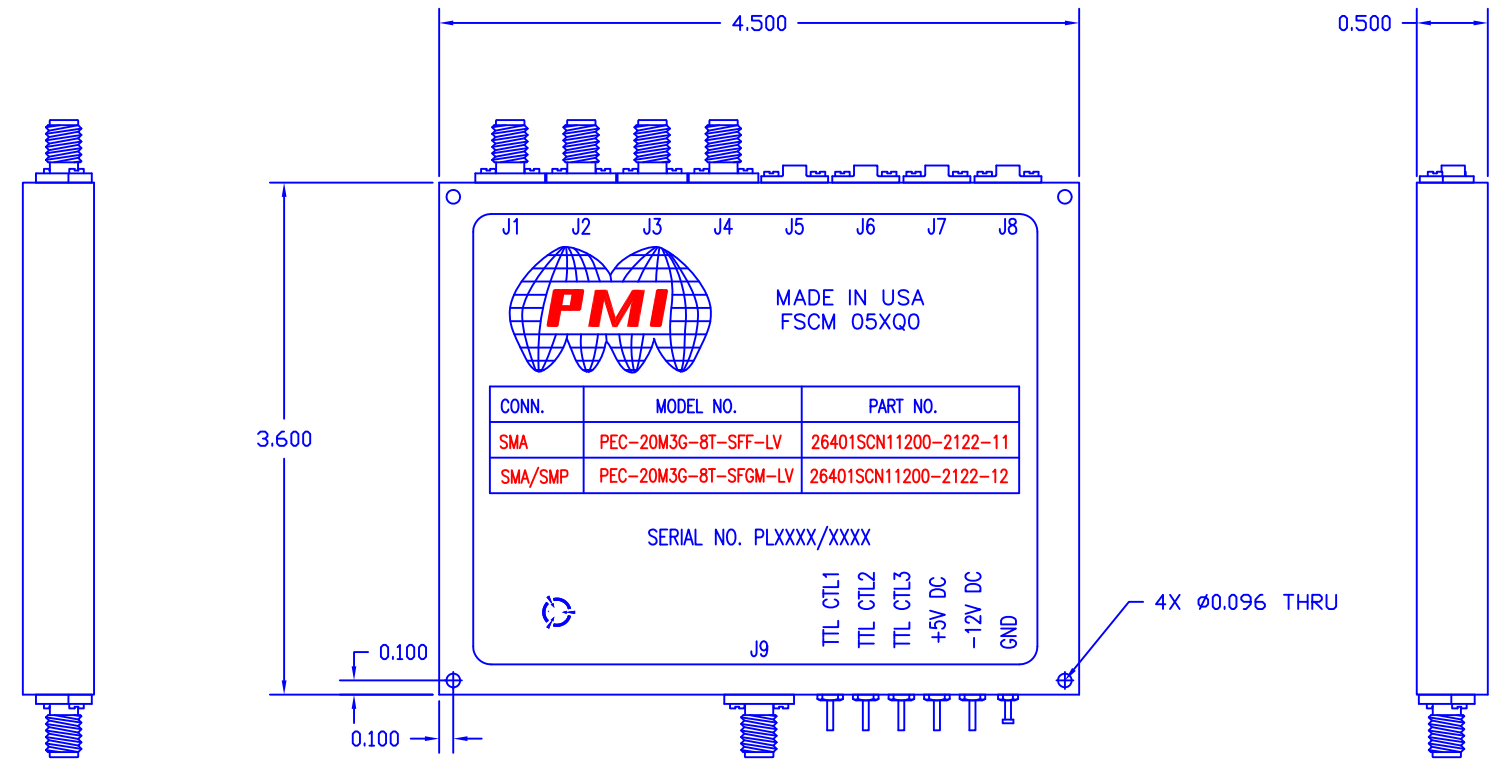
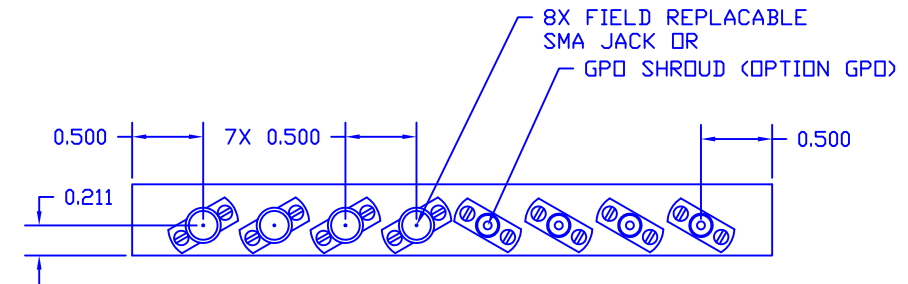
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	10/20/05	
	B	SPECS UPDATE	3/29/11	

SPECIFICATIONS:

- OPERATING FREQUENCY: 20 MHz TO 3.0 GHz
- INSERTION LOSS (0.02 - 1.0GHz): 2.0dB MAXIMUM
- INSERTION LOSS (1.0 - 2.0GHz): 2.5dB MAXIMUM
- INSERTION LOSS (2.0 - 3.0GHz): 4.0dB MAXIMUM
- VSWR (0.02 - 1.0GHz): 1.8:1 MAXIMUM
- VSWR (1.0 - 2.0GHz): 1.9:1 MAXIMUM
- VSWR (2.0 - 3.0GHz): 2.0:1 MAXIMUM
- ISOLATION (0.02 - 1.0GHz): 70dB MINIMUM
- ISOLATION (1.0 - 2.0GHz): 60dB MINIMUM
- ISOLATION (2.0 - 3.0GHz): 50dB MINIMUM
- P1dB (0.02 - 1.0GHz): +23/25 dB
- P1dB (1.0 - 2.0GHz): +27/29 dB
- P1dB (2.0 - 3.0GHz): +30/32 dB
- AMPLITUD BALANCE: +/-0.25dB
- PHASE BALANCE: +/-6.0 DEGREES
- VIDEO TRANSIENTS: ABOVE 20MHZ -100 dBm
BELOW 20MHZ -75 dBm
- CONTROL: SEE TRUTH TABLE ABOVE
PINS CTL1 thru CTL3 ARE PULLED LOW "0"
- POWER SUPPLY: +5V @ 450mA NOMINAL
-12V @ 350mA NOMINAL
- RF CONNECTORS: GPO & SMA FEMALE CONNECTORS
- FINISH: SILVER PLATED

TRUTH TABLE

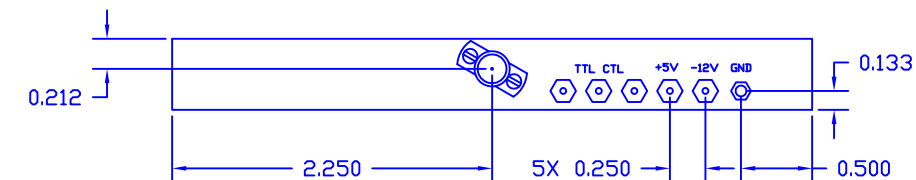
TTL1	TTL2	TTL3	PATH
0	0	0	J9-J1
0	0	1	J9-J2
0	1	0	J9-J3
0	1	1	J9-J4
1	0	0	J9-J5
1	0	1	J9-J6
1	1	0	J9-J7
1	1	1	J9-J8



ENVIRONMENTAL RATINGS:

- TEMPERATURE: -45°C TO +90°C (OPERATING)
-54°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- SALT FOG: MIL-STD-202F, METHOD 101D+EST COND. B
- FUNGUS: MIL-STD-810F, METHOD 508.5
- EMI / EMC: MIL-STD-461E

Note: Environmental testing and ESS will be met, but actual testing is not done by PMI Actual screening is available for an additional charge.



NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PROPRIETARY & CONFIDENTIAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS: ± DECIMALS: .XX ± 0.010 .XXX ± 0.005 ANGLES: ±		PART NO.	PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE		
DRAWN: <i>DPD</i>	10/20/05	OUTLINE DRAWING PEC-20M3G-8T-SFGM-LV		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		B		27004805
NEXT ASSY	USED ON	SCALE	N/S	SHEET 1 OF 1
APPLICATION	DO NOT SCALE DRAWING			