

**DESCRIPTION:**

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

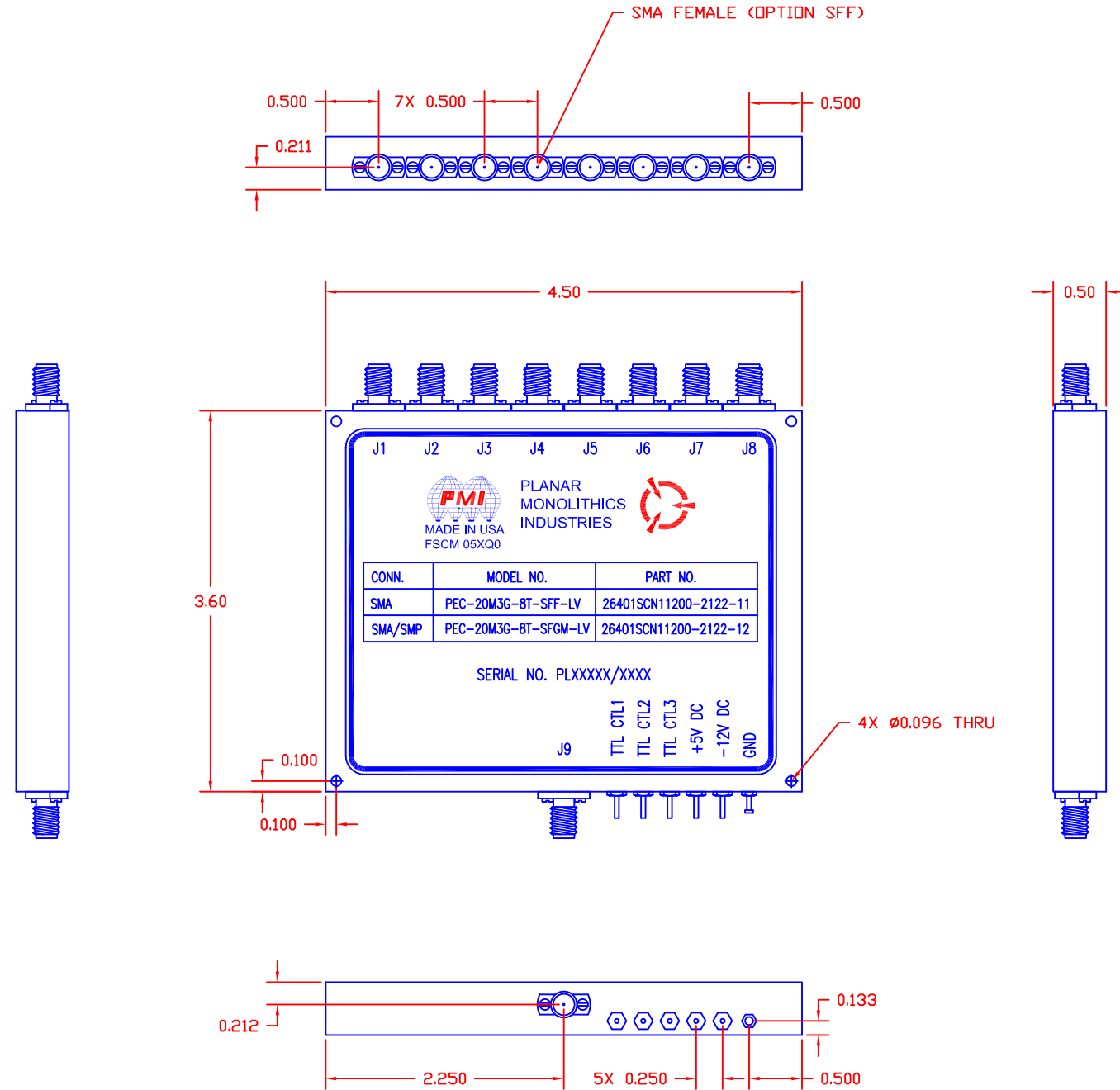
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	Original Release	2/8/21	
	A2	ECN #21-0152	9/17/21	
	A3	ECN #22-00xx	4/14/22	

**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
- AMPLITUDE 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: SMA FEMALE (OPTION SFF)
- 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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN	DPD	10/20/05	PRODUCT FEATURE PEC-20M3G-8T-SFF-LV		
CHECKED	JPH	2/8/21	SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	27004680
			SCALE	SHEET	
			N: S	1 OF 1	