

# DESCRIPTION

PMI MODEL P2T-7D7G8D5G-25-T-SFF-PM IS A SINGLE POLE DOUBLE THROW ABSORPTIVE SWITCH THAT OFFERS VERY LOW INSERTION LOSS OF 1dB AND > 25dB ISOLATION OVER THE OPERATING FREQUENCY OF 7.7 TO 8.5GHz. THIS SWITCH IS PHASE MATCHED TO WITHIN ± 3 DEGREES AND AMPLITUDE MATCHED TO WITHIN 0.5dB BETWEEN THE OUTPUT PORTS.

# SPECIFICATIONS

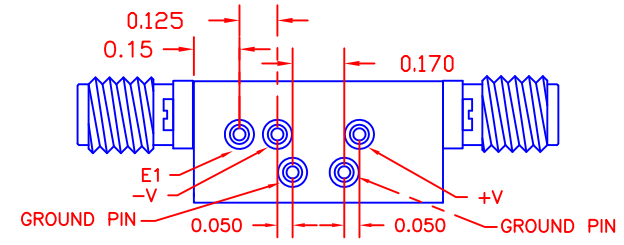
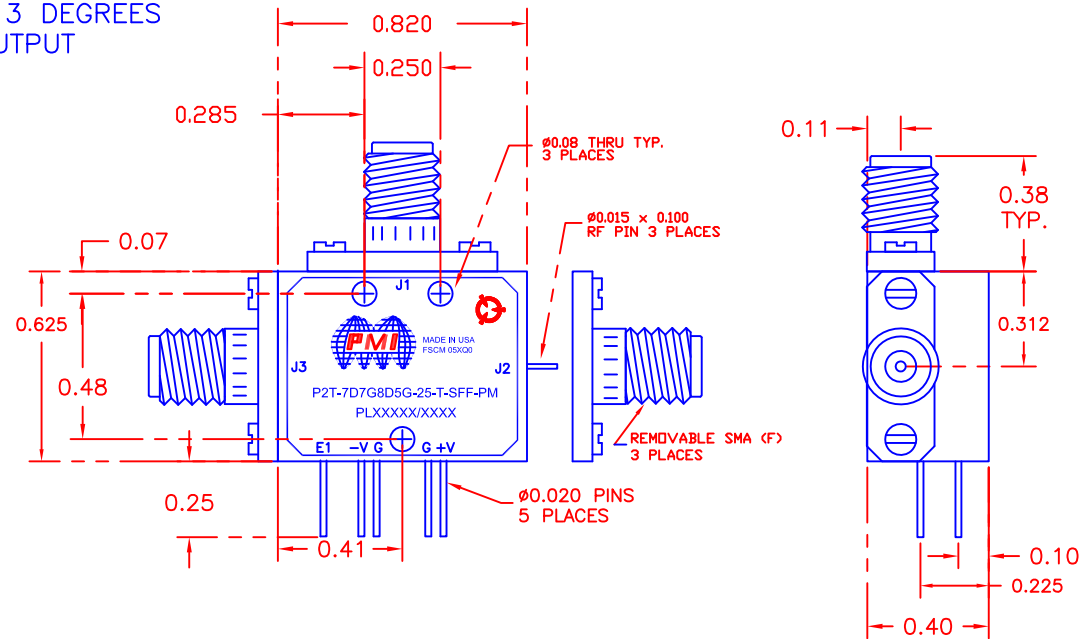
- FREQUENCY RANGE:..... 7.7 TO 8.5 GHz
- INSERTION LOSS:..... 1.0 dB MAX.
- ISOLATION: ..... 25 dB MIN.
- VSWR: ..... 1:8 MAX.
- IMPEDANCE: ..... 50 Ω
- SWITCHING SPEED:..... 50% TTL TO 10%/90% RF  
1 us MAX., 100 ns TYP.
- INPUT POWER:..... +20 dBm CW (OPERATING)  
+23 dBm CW (SURVIVAL)
- AMPLITUDE BALANCE:..... 0.5dB MAX. (J1-J2 & J1-J3)
- PHASE BALANCE: ..... ± 3.0° MAX. (J1-J2 & J1-J3)
- CONTROL: ..... TTL LOGIC "0" = J1-J2 ON  
TTL LOGIC "1" = J1-J3 ON
- POWER SUPPLY:..... +15 V @ 50 mA NOMINAL  
-15 V @ 50 mA NOMINAL
- RF CONNECTORS:..... SMA FEMALE (FIELD REMOVABLE)
- SIZE: ..... (L) 0.820" X (W) 0.625" X (H) 0.4"
- FINISH: ..... BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

# ENVIRONMENTAL RATINGS

- **TEMPERATURE:**..... -40°C TO +85°C (OPERATING)  
-55°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 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/20/15	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>K. MASON</i>		9/20/15	PRODUCT FEATURE P2T-7D7G8D5G-25-T-SFF-PM			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO.	REV. -
ISSUED			PRELIMINARY			
			SCALE N:S	SHEET 1 OF 1		

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010  
WEIGHT: 1.5 oz. TYPICAL