

## DESCRIPTION

PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT27G IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW PIN DIODE SWITCH THAT OPERATES FROM 50 MHz TO 27 GHz. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

## SPECIFICATIONS

- FREQUENCY RANGE: 50 MHz to 27GHz
- ISOLATION: 65dB Typical, 55dB Min.
- INSERTION LOSS: 5.5dB Typical, 6.8dB Max.
- VSWR IN / OUT: 2.0:1 Typical, 2.2:1 Max.
- INPUT POWER: +17 dBm CW MAX
- SWITCHING SPEED: 5ns Typical, 6ns Max.
- RISE/FALL TIME: 0.9ns Typical, 1ns Max.
- CONTROL SIGNAL: TTL "1" = ON
- DC VOLTAGE: +8 to +15V @ 15mA Max.  
-8 to -15V @ 40mA Max.
- CONNECTORS IN/OUT: 2.92mm FEMALE CONNECTORS
- CONTROL CONNECTORS: SMC
- FINISH: PAINTED BLUE
- SIZE: 1.2" X 1.3" X 0.5"

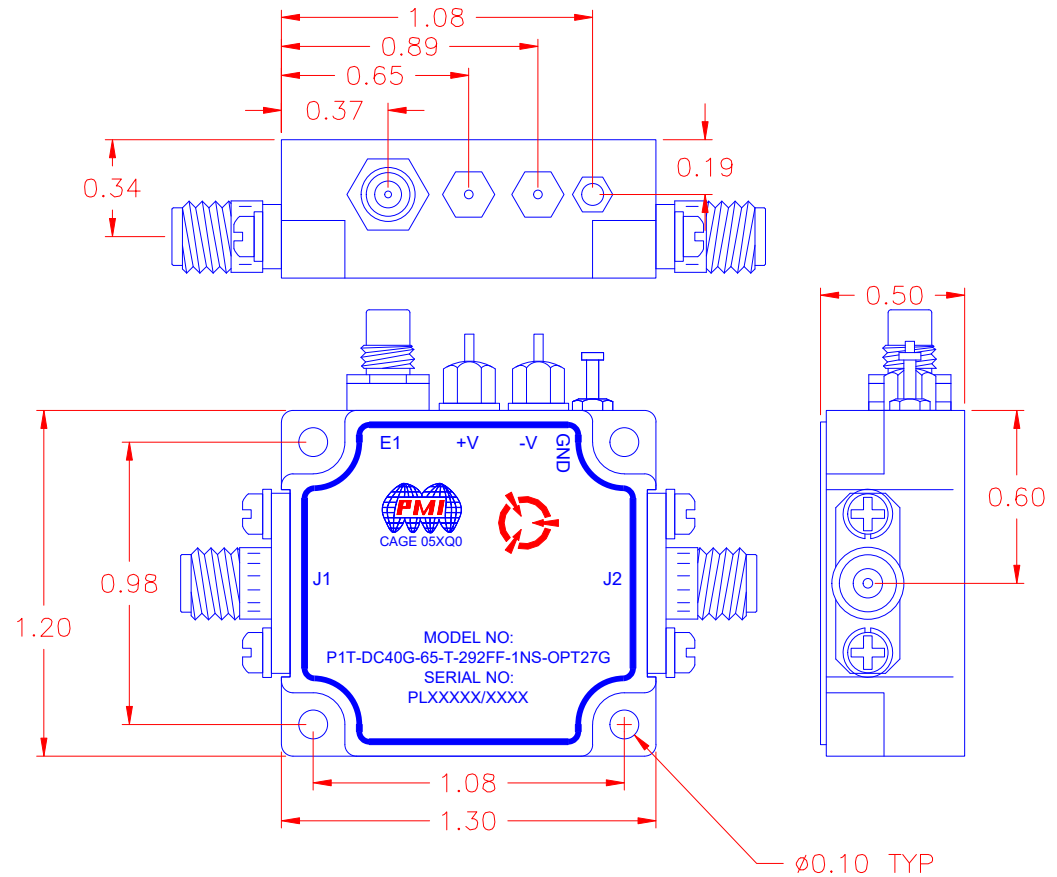
## ENVIRONMENTAL RATINGS

- 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 107

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

| REVISIONS |      |                  |          |          |
|-----------|------|------------------|----------|----------|
| ZONE      | REV. | DESCRIPTION      | DATE     | APPROVED |
|           | A1   | ORIGINAL RELEASE | 2/23/22  |          |
|           | B1   | ECN # 24-0266    | 10/17/24 |          |

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



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

| APPROVALS        |  | DATE     | TITLE                           |          |              |
|------------------|--|----------|---------------------------------|----------|--------------|
| DRAWN <i>DPD</i> |  | 11/13/14 | PRODUCT FEATURE                 |          |              |
| CHECKED          |  |          | P1T-DC40G-65-T-292FF-1NS-OPT27G |          |              |
| ISSUED           |  |          | SIZE                            | FSCM NO. | DWG NO.      |
|                  |  |          | A                               | 05XQ0    | 27044080     |
|                  |  |          | SCALE                           | N:S      | SHEET 1 OF 1 |
|                  |  |          |                                 |          | REV. B1      |