

DESCRIPTION

PMI MODEL P2T-7G10G-53-T-SFF IS A SPDT ABSORPTIVE (NON-REFLECTIVE) PIN DIODE SWITCH DESIGNED FOR THE 7 TO 10 GHz FREQUENCY RANGE. IT FEATURES 3.5 dB INSERTION LOSS, 5 mV VIDEO TRANSIENTS, AND 20 dBm CW POWER HANDLING.

SPECIFICATIONS

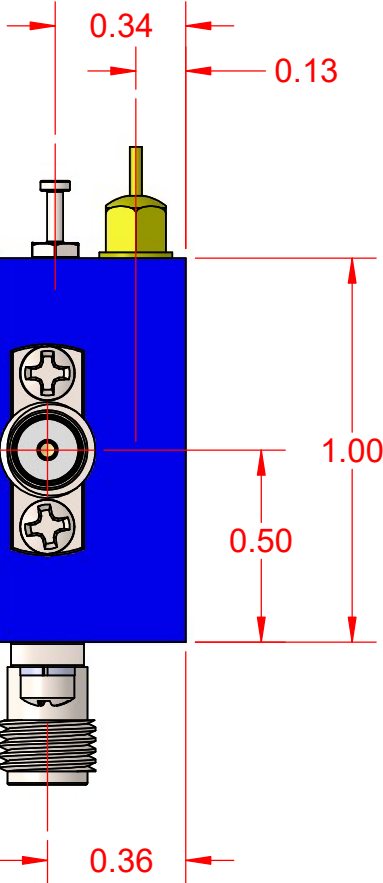
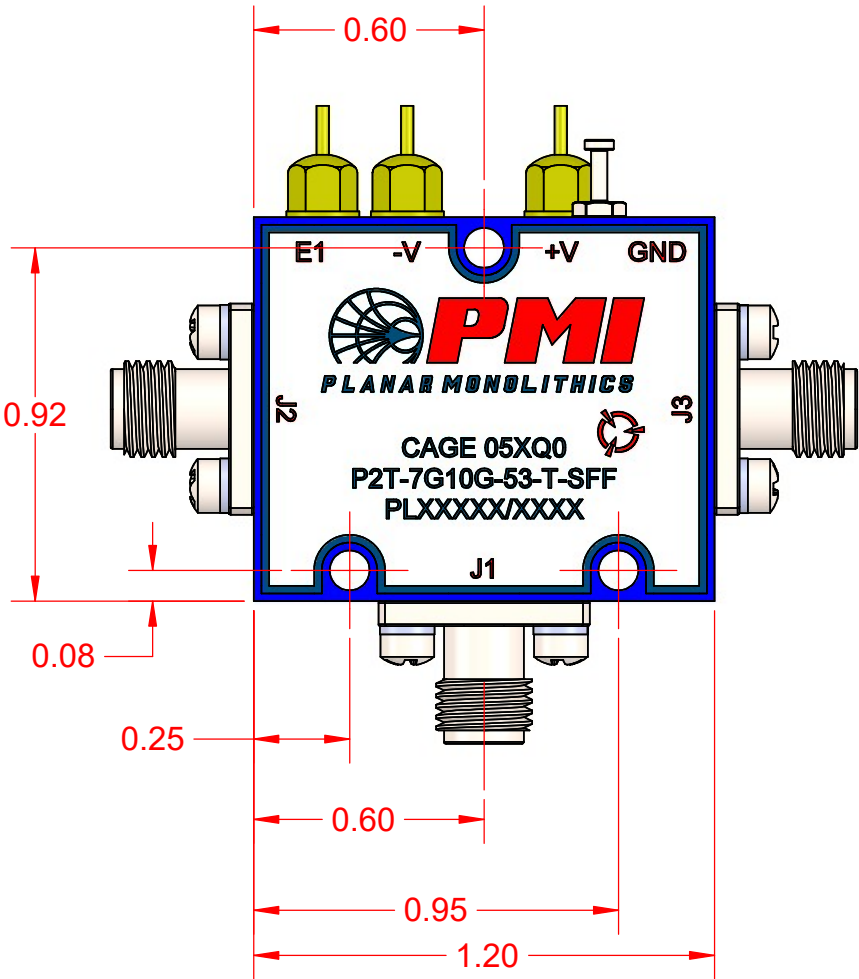
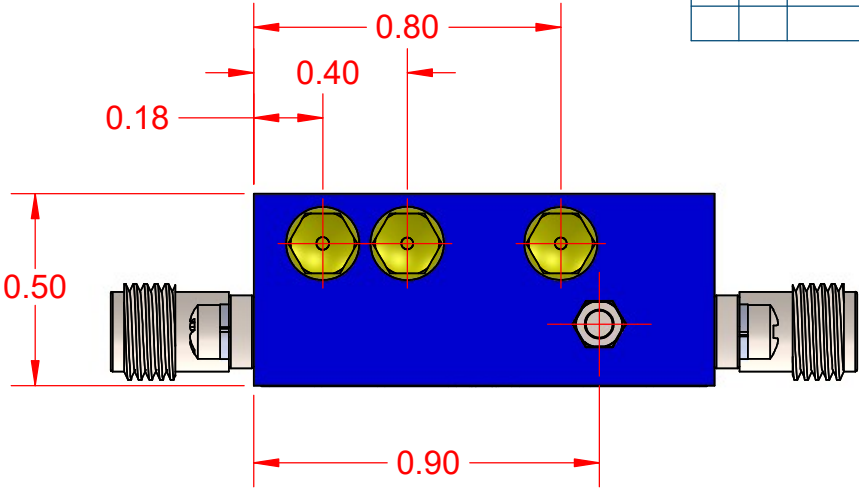
- FREQUENCY RANGE: 7 - 10 GHz
- INSERTION LOSS: 3.5 dB MAX
- ISOLATION: 53 dB MIN
- VSWR: 2.0:1
- RISE TIME: 10 ns MAX (10% RF TO 90% RF)
- FALL TIME: 10 ns MAX (90% RF TO 10% RF)
- DELAY ON: 30 ns MAX (50% TTL TO 90% RF)
- DELAY OFF: 30 ns MAX (50% TTL TO 10% RF)
- POWER HANDLING: +20 dBm, CW MAX
- VIDEO TRANSIENT: 5 mV PEAK TO PEAK MAX @ 20 MHz BANDWIDTH
- DC POWER: +5 VDC ± 5% @ 65 mA MAX  
-5 VDC ± 5% @ 50 mA MAX
- FINISH: PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: -65°C TO +110°C (OPERATING)  
-65°C TO +125°C (OPERATING)
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107 COND. A
- HUMIDITY: MIL-STD-202F, METHOD 103 COND. B
- SHOCK: MIL-STD-202F, METHOD 213 COND. B
- VIBRATION: MIL-STD-202F, METHOD 204 COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105 COND. B

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

| ZONE | REV. | DESCRIPTION      | DATE       | APPROVED |
|------|------|------------------|------------|----------|
|      | 1    | ORIGINAL RELEASE | 08/24/2026 |          |
|      |      |                  |            |          |
|      |      |                  |            |          |



PMI CONFIDENTIAL AND PROPRIETARY

|                                                                                                                                                                                                               |                     |            |                                                                                                                                                                                                                                                                                                                          |                        |              |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|--|
| <div>UNLESS OTHERWISE SPECIFIED<br/>DIMENSIONS ARE IN INCHES<br/>TOLERANCES ARE:<br/>FRACTIONS    DECIMALS    ANGLES<br/>±                .XX ± 0.02                ±<br/>                  .XXX ± 0.01</div> |                     |            | <div><b>PMI</b><br/><b>PLANAR MONOLITHICS</b><br/>7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA<br/>TEL: (301) 662-5019, FAX: (301) 662-1731<br/>WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM<br/>ISO 9001 CERTIFIED</div> |                        |              |  |
|                                                                                                                                                                                                               | APPROVALS           | DATE       | TITLE<br>PRODUCT FEATURE<br>P2T-7G10G-53-T-SFF                                                                                                                                                                                                                                                                           |                        |              |  |
|                                                                                                                                                                                                               | DRAWN<br>A. SABADOS | 08/24/2026 |                                                                                                                                                                                                                                                                                                                          |                        |              |  |
|                                                                                                                                                                                                               | REDRAWN             |            |                                                                                                                                                                                                                                                                                                                          |                        |              |  |
| ISSUED                                                                                                                                                                                                        |                     | SIZE<br>B  | FSCM NO.<br>05XQ0                                                                                                                                                                                                                                                                                                        | DWG NO.<br>PRELIMINARY | REV.<br>1    |  |
|                                                                                                                                                                                                               |                     | SCALE 2:1  |                                                                                                                                                                                                                                                                                                                          |                        | SHEET 1 OF 1 |  |