## DESCRIPTION

THE MODEL P9T-1G1R5G-60-T-55-SFF IS A HIGH SPEED, SINGLE POLE, NINE THROW, ABSORPTIVE SWITCH CAPABLE OF SWITCHING WITHIN 100ns. THE FREQUENCY RANGE IS 1.0 TO 1.5 GHz AND THIS SWITCH HAS OVER 60dB OF ISOLATION.

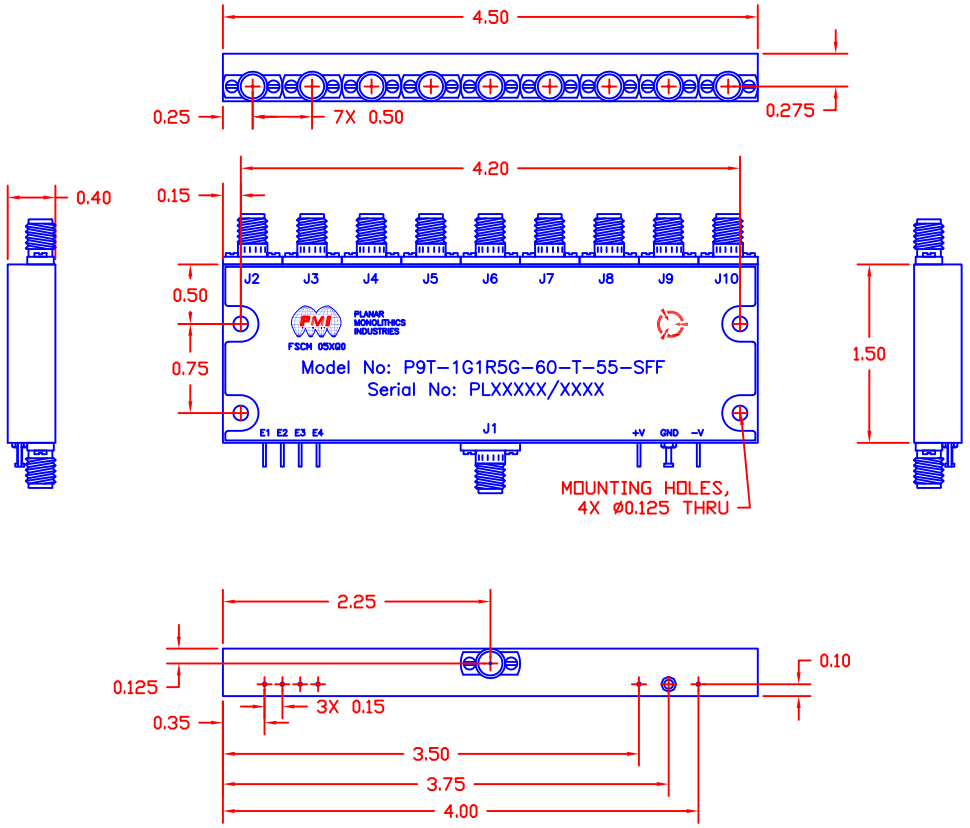
| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | – | PRELIMINARY | 1/17/19 | |
| | | | | |

## SPECIFICATIONS

- ABSORPTIVE FREQUENCY RANGE —— 1.0 to 1.5 GHz
- ISOLATION —— 60dB Min.
- IMPEDANCE —— 50 Ohms
- INSERTION LOSS —— 2.0 dB Max.
- VSWR IN/OUT —— 2.0:1 Max.
- RF POWER —— +30 dB/CW Min.
- SWITCHING SPEED —— 100 ns Typ.
- DC VOLTAGE AND CURRENT —— +5VDC @ 450mA Max.
  −5VDC @ 75mA Max.
- CONTROL SIGNAL —— 4-Line Decoded TTL
  See Table 1
- RF CONNECTORS —— SMA (F)
- FINISH —— GOLD PLATED
- SIZE —— 4.5" X 1.5" X 0.4"

TABLE 1 – LOGIC

| E1 | E2 | E3 | E4 | Low Loss Path |
|---|---|---|---|---|
| 0 | 0 | 0 | 1 | J1 to J2 |
| 0 | 0 | 1 | 0 | J1 to J3 |
| 0 | 0 | 1 | 1 | J1 to J4 |
| 0 | 1 | 0 | 0 | J1 to J5 |
| 0 | 1 | 0 | 1 | J1 to J6 |
| 0 | 1 | 1 | 0 | J1 to J7 |
| 0 | 1 | 1 | 1 | J1 to J8 |
| 1 | 0 | 0 | 0 | J1 to J9 |
| 1 | 0 | 0 | 1 | J1 to J10 |




## ENVIRONMENTAL RATINGS

- TEMPERATURE: —— −54°C TO +85°C (OPERATING)
  −65°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

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010
WEIGHT: 2.75 oz.



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ISO 9001 CERTIFIED

| APPROVALS | DATE |
|---|---|
| DRAWN EMF | 2/9/17 |
| REDRAWN CW | 1/17/19 |
| ISSUED | |

TITLE: PRODUCT FEATURE
P9T-1G1R5G-60-T-55-SFF
1.0 TO 1.5 GHz HIGH SPEED SP9T ABSORPTIVE SWITCH

| SIZE | FSCM NO. | DWG NO. | REV. |
|---|---|---|---|
| A | 05XQ0 | PRELIMINARY | – |

SCALE N:S SHEET 1 OF 1