REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	1/30/18	

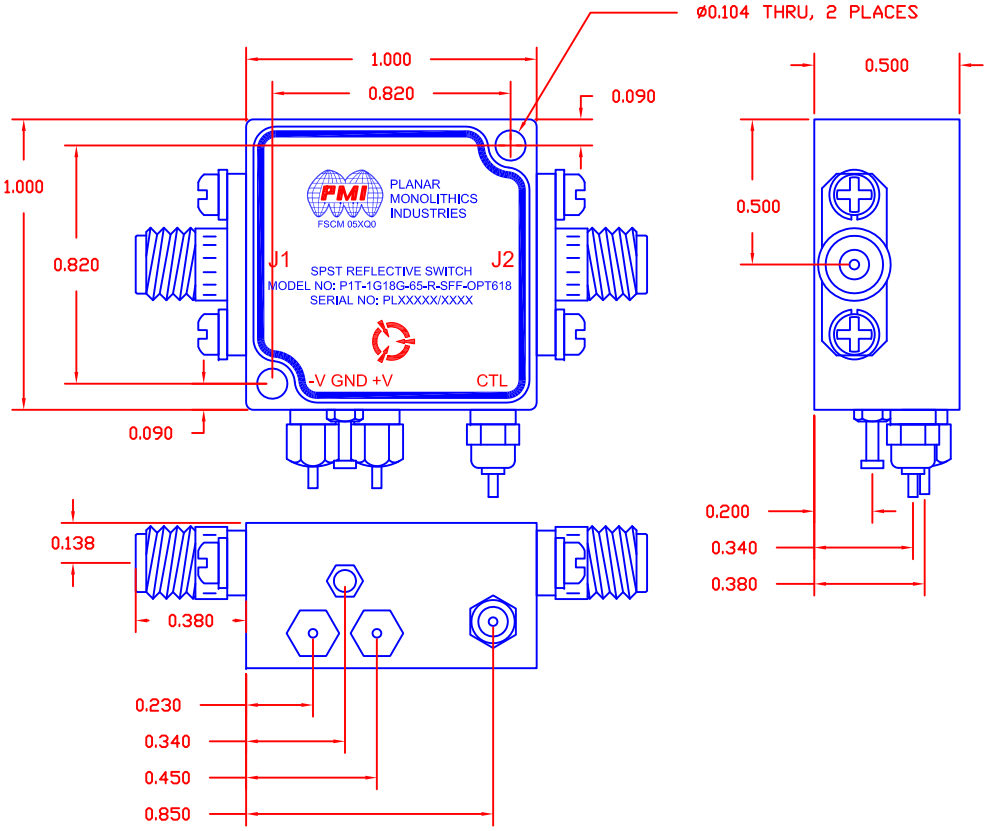
DESCRIPTION

PMI MODEL P1T-1G18G-65-R-SFF-OPT618 IS A REFLECTIVE, HIGH SPEED, SINGLE POLE SINGLE THROW SWITCH CAPABLE OF SWITCHING WITHIN 50 ns MAXIMUM. THE FREQUENCY RANGE IS 6.0 GHz TO 18.0 GHz. THIS SWITCH HAS > 65 dB ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: — 6.0 GHz TO 18.0 GHz
- IMPEDANCE: — 50 Ω
- INPUT POWER: — +30dBm MAX (SURVIVAL)
  +20dBm MAX (OPERATING)
- INPUT VSWR: — 2.0:1 MAX
- INSERTION LOSS: — 2.5dB MAX
- ISOLATION: — 65dB MIN
- SWITCHING SPEED: — 50ns MAX
- DC VOLTAGE: — +5VDC, 20mA TYP
  −15VDC, 20mA TYP
- CONTROL: — SOLDER PIN
  TTL COMPATIBLE
  "0" = INSERTION LOSS
  "1" = ISOLATION
- CONNECTORS IN/OUT: — SMA (F)
- SIZE: — (L) 1.0" X (W) 1.0" X (H) 0.5"
- 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.

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

ENVIRONMENTAL RATINGS

- **TEMPERATURE:** — −55°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

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN B. Thomas	9/30/15
REDRAWN CW	1/30/18
ISSUED	

TITLE: PRODUCT FEATURE
P1T-1G18G-65-R-SFF-OPT618

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	—

SCALE N: S | SHEET 1 OF 1