DESCRIPTION

PMI MODEL P1T-DC40G-65-T-24FM-1NS IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW PIN DIODE SWITCH THAT OPERATES FROM DC TO 40 GHZ. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

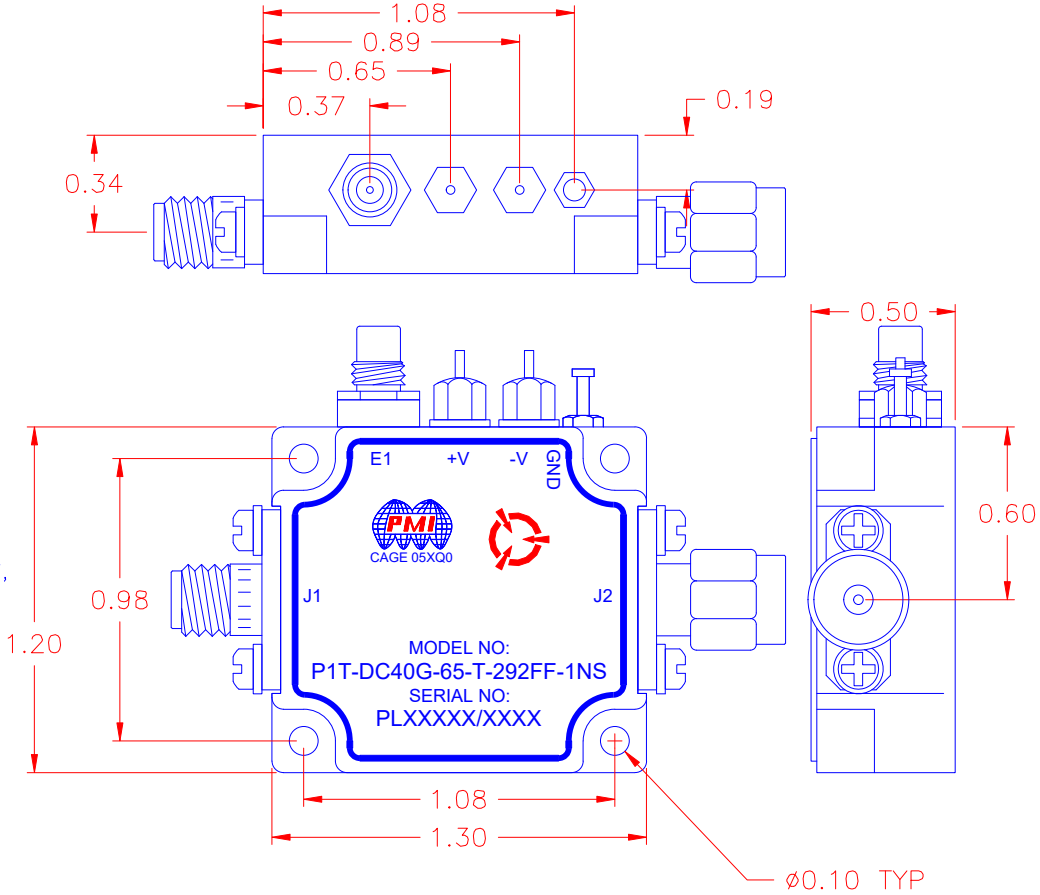
REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	04/29/15	
	A1	ECN # 15-0094	9/14/15	
	B1	ECN # 24-0266	10/16/24	

SPECIFICATIONS

- FREQUENCY RANGE: DC to 40 GHz
- ISOLATION: 65 dB Typical, 55 dB Min.
- INSERTION LOSS: 5.5 dB Typical, 6.8 dB Max.
- VSWR IN / OUT: 2.0:1 Typical, 2.2:1 Max.
- INPUT POWER: +17 dBm CW MAX
- SWITCHING SPEED: 5 ns Typical, 6 ns Max.
- RISE/FALL TIME: 0.9 ns Typical, 1 ns Max.
- CONTROL SIGNAL: TTL "1" = ON
- DC VOLTAGE: +8 to +15V @ 15mA Max.
  −8 to −15V @ 40mA Max.
- CONNECTORS IN/OUT: 2.4mm FEMALE/MALE CONNECTORS
- CONTROL CONNECTORS: SMC
- 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.
- SIZE: 1.2" X 1.3" X 0.5"

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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

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

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ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN VR	04/29/15
CHECKED	
ISSUED	

TITLE: PRODUCT FEATURE P1T-DC40G-65-T-24FM-1NS

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27025372	B1

SCALE N:S SHEET 1 OF 1