DESCRIPTION

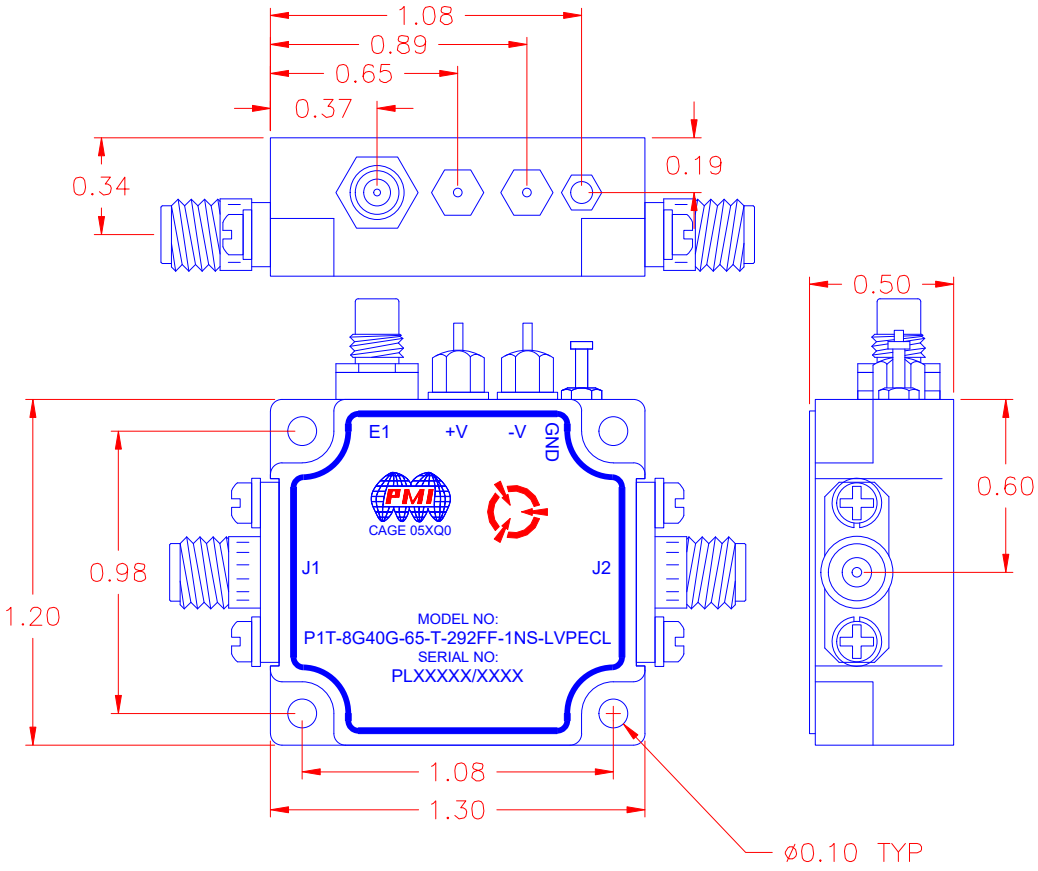
PMI MODEL P1T-8G40G-65-T-292FF-1NS-LVPECL IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW PIN DIODE SWITCH THAT OPERATES FROM 8 TO 40 GHZ. THIS MODEL INCORPORATES A SINGLE ENDED LVPECL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	03/01/19	
	A2	ECN # 22-0101	05/15/22	
	B1	ECN # 24-0266	10/17/24	

SPECIFICATIONS

- FREQUENCY RANGE: — 8 to 40GHz
- 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.
- P1dB: — +13 dBm Min.
- SWITCHING SPEED: — 5ns Typical, 10ns Max.
- RISE/FALL TIME: — 0.9ns Typical, 1ns Max.
- CONTROL SIGNAL: — SINGLE ENDED LVPECL "1" = ON
- DC VOLTAGE: — +8 to +15V @ 40mA Max.
−8 to −15V @ 40mA Max.
- CONNECTORS IN/OUT: — 2.92mm FEMALE 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 KM	12/11/13
REDRAWN GJR	03/01/19
ISSUED	

TITLE: PRODUCT FEATURE
P1T-8G40G-65-T-292FF-1NS-LVPECL

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27036120	B1

SCALE N:S SHEET 1 OF 1