

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.

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"

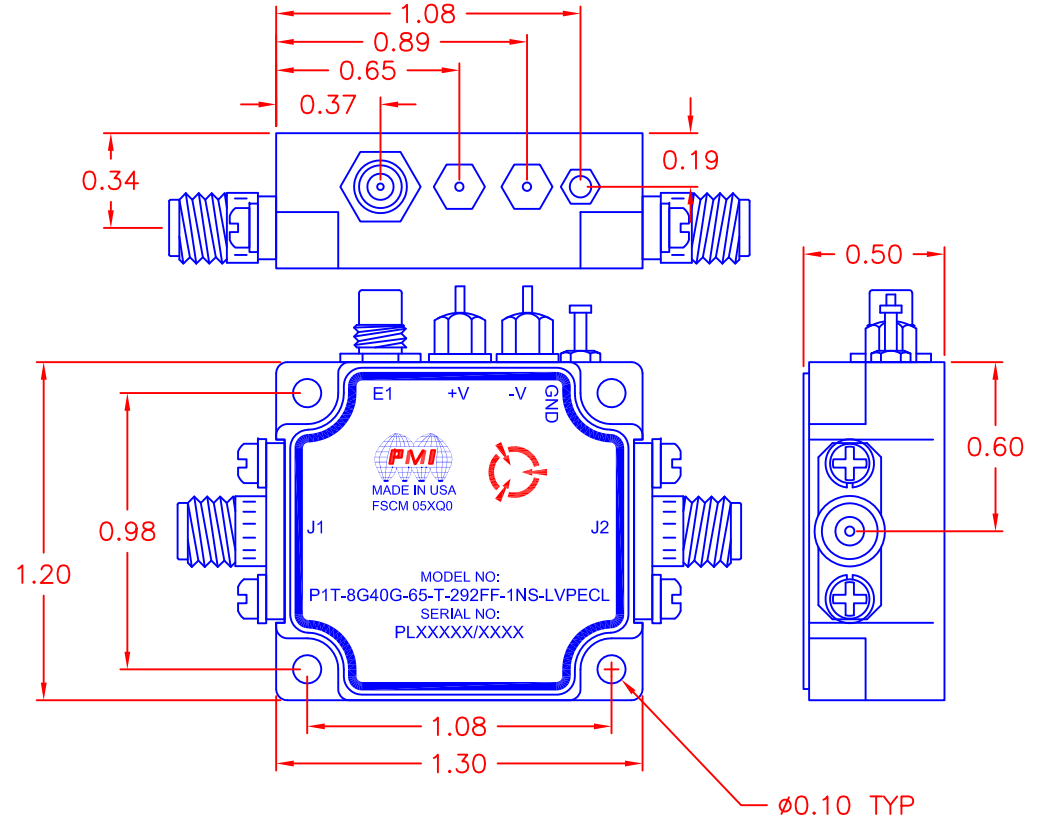
ENVIRONMENTAL RATINGS

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	08/01/19	
	A2	ECN # 22-0101	08/15/22	

MECHANICAL OUTLINE



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PMI CONFIDENTIAL AND PROPRIETARY

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

APPROVALS		DATE	TITLE			
DRAWN	<i>K.M.</i>	12/11/19	PRODUCT FEATURE			
REDRAWN	<i>GJR</i>	08/01/19	P1T-8G40G-65-T-292FF-1NS-LVPECL			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	27036120	A2
			SCALE	N:S		SHEET
					1 OF 1	