

## DESCRIPTION

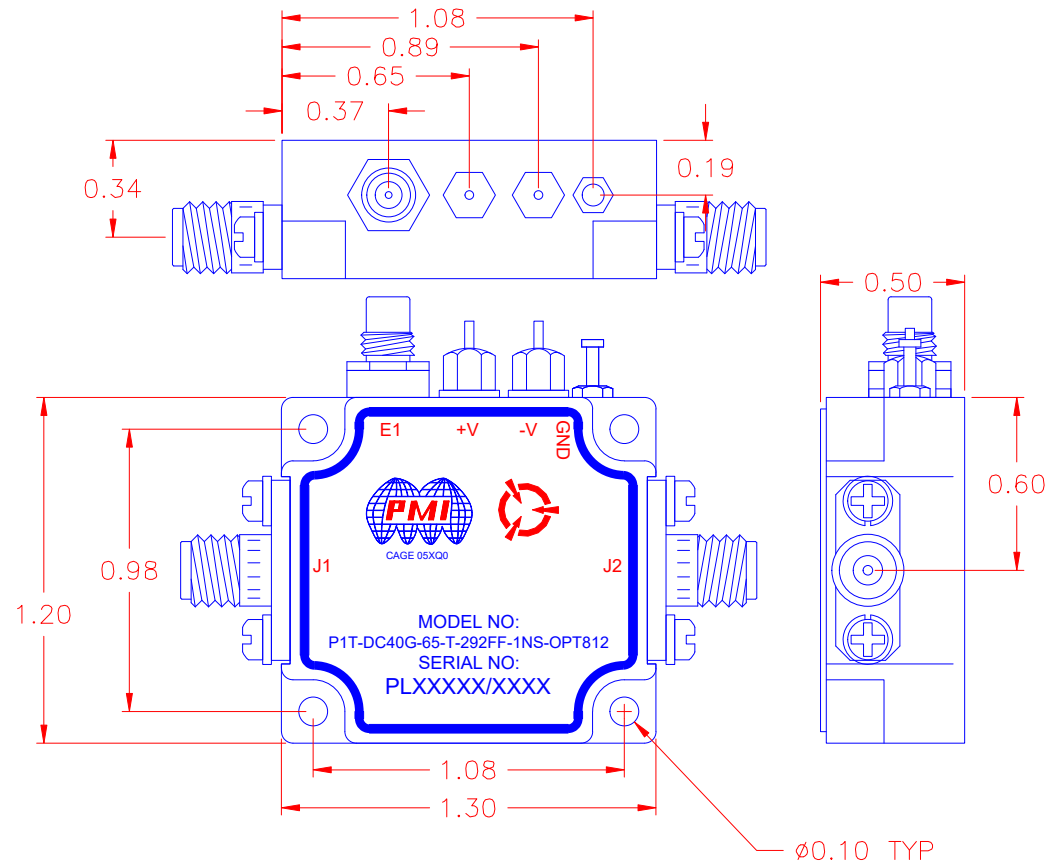
PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT812 IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW PIN DIODE SWITCH THAT OPERATES FROM 8 TO 12 GHZ. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/27/19	
	B1	ECN # 24-0266	10/17/24	

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 8 to 12GHz
- ISOLATION: \_\_\_\_\_ 70dB Typical, 60dB Min.
- INSERTION LOSS: \_\_\_\_\_ 3.5dB Typical, 4.5dB Max.
- VSWR IN / OUT: \_\_\_\_\_ 2.0:1 Typical, 2.2:1 Max.
- INPUT POWER: \_\_\_\_\_ +17 dBm CW MAX
- SWITCHING SPEED: \_\_\_\_\_ 3ns Typical, 5ns Max.
- RISE/FALL TIME: \_\_\_\_\_ 0.9ns Typical, 1ns Max.
- CONTROL SIGNAL: \_\_\_\_\_ TTL "1" = ON
- DC VOLTAGE: \_\_\_\_\_ +8 to +15V @ 15mA Max.  
-8 to -15V @ 40mA Max.
- CONNECTORS IN/OUT: \_\_\_\_\_ 2.92mm FEMALE CONNECTORS
- CONTROL CONNECTORS: \_\_\_\_\_ SMC
- FINISH: \_\_\_\_\_ Painted Blue
- 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

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD  
FREDERICK, MARYLAND 21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
WEBSITE: [www.pmi-rf.com](http://www.pmi-rf.com)  
E-MAIL: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>PDW</i>		08/24/15	PRODUCT FEATURE		
REDRAWN <i>SPU</i>		11/27/19	P1T-DC40G-65-T-292FF-1NS-OPT812		
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27037740
			SCALE N:S	SHEET 1 OF 1	
					REV. B1