DESCRIPTION

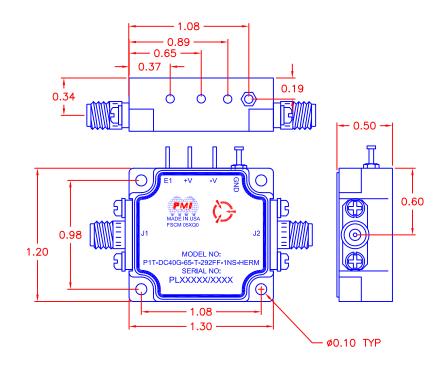
PMI MODEL P1T-DC40G-65-T-292FF-1NS-HERM IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW PIN DIODE SWITCH THAT OPERATES FROM DC TO 40 GHZ. THIS MODEI INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

	REVISIONS										
ZONE	REV.	DESCRIPTION	DATE	APPROVED							
	_	PRELIMINARY	8/26/22								

MECHANICAL OUTLINE

SPECIFICATIONS

• FREQUENCY RANGE:	———— DC to 40GHz ———— 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:	
SWITCHING SPEED:	———— 5ns Typical, 6ns 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
• FINISH:—	GRAY EPOXY POLIMIDE COATING IAW MIL—C—22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL—P—23377, TYPE I, CLASS 1 OR 3.



ENVIRONMENTAL RATINGS

SIZE:-

TEMPERATURE:

-50°C TO +50°C (OPERATING)

-60°C TO +60°C (STORAGE)

LOW PRESSURE:

THE DEVICE WORKS NORMALLY WITHIN THE ALTITUDE RANGE OF 0 TO 4500 M

HOT AND HUMID REQUIREMENTS:

THE TEMPERATURE IN THE EXPERIMENTAL

CHAMBER WAS 30 DEGREE CELSIUS AND THE RELATIVE HUMIDITY WAS 95%. THE PERFORMACE OF THE DEVICE WAS RESTORED TO STANDARD ATMOSPHERIC CONDITIONS, AND THE DATA WAS

MEASURED AND COMPARED AT ROOM TEMPERATURE

• VIBRATION AND IMPACT REQUIREMENTS: —— AFTER BEING TRANSPORTED BY ROAD, RAILWAY, WATER AND AIR, THE EQUIPMENT CAN WORK NORMALLY

• SALT SPRAY TEST: — THE CONCENTRATON OF SALT SOLUTION SHALL BE 5%-1%, AND THE EXPERIMENTAL TEMPERATURE SHALL BE 35°C+-2%. TWO STATES OF SALT SPRAY SPRAYING AND DRYING FOR 24 HOURS SHALL BE USED ALTERNATELY. THEN, THE SPECIMEN SHALL BE GENTLY WASHED WITH RUNNING WATER UNDER STANDARD ATMOSPHERIC CONDITIONS, AND THE EXPERIMENTAL RESULTS SHALL BE RECORDED AND COMPARED WITH THE DATA BEFORE DEVICE TEST

HERMETICALLY SEALED

· 1.2" X 1.3" X 0.50"

• MOLD TEST: —— THE EQUIPMENT SHOULD WORK WELL IN TROPICAL CLIMATES IN THE PRESENCE OF MOLD GROWTH

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

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



		TITLE								
APPROVALS DATE		PRODUCT FEATURE								
DRAWN		P1T-DC40G-65-T-292FF-1NS-HERM								
CHECKED		SIZE	FSCM NO.		DWG NO.					REV.
ISSUED		Α	05XQ0		PRELIMINARY				_	
ISSUED		SCALE	N:S				SHEET	1	OF	1