

**DESCRIPTION:**

PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT10M20G IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW FET SWITCH THAT OPERATES FROM 10 MHz TO 20 GHz. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/3/24	

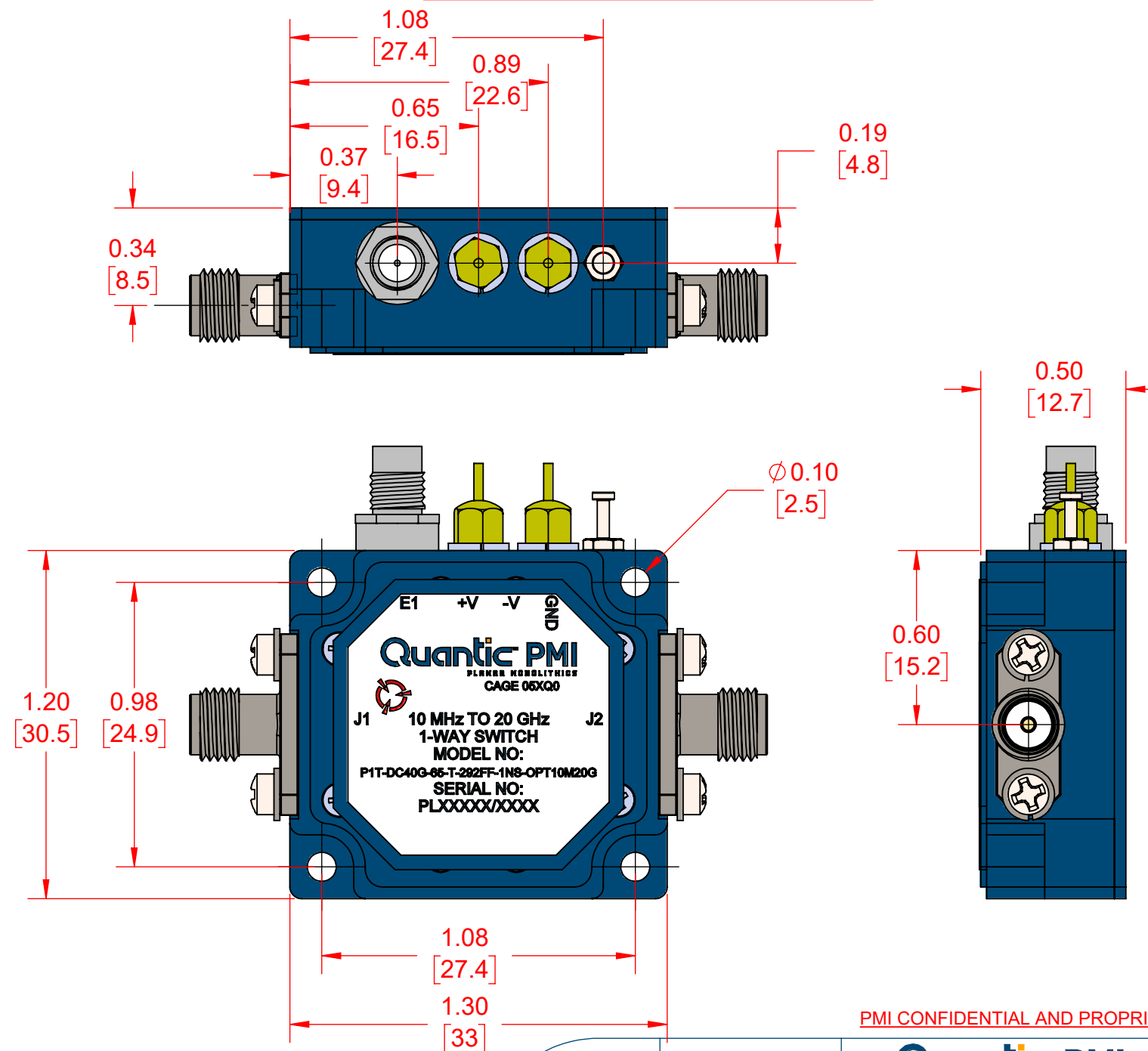
**SPECIFICATIONS:**

- FREQUENCY RANGE:..... 10 MHz TO 20 GHz
- ISOLATION:..... 60 dB Typical, 50 dB Min.
- INSERTION LOSS:..... 4.5 dB Typical, 5.0 dB Max.
- VSWR (ON/OFF):..... 2.0:1 Typical, 2.2:1 Max.
- INPUT POWER:..... +17 dBm CW Max.
- SWITCHING SPEED:..... 6 ns Typical, 7 ns Max.
- RISE/FALL TIME:..... 1 ns Typical, 2 ns Max.
- CONTROL SIGNAL:..... TTL "1" = ON
- VIDEO TRANSIENTS :..... 300 MHz BW (2-18 GHz) : 85mV P-P  
20 MHz BW (2-18 GHz) : 20mV P-P
- DC VOLTAGE:..... +8 to +15V @ 15mA Max.  
-8 to -15V @ 40mA Max.
- CONNECTORS IN/OUT:..... SMA FEMALE CONNECTORS
- CONNECTOR CONTROL:..... SMC MALE CONNECTOR
- FINISH:..... PAINTED BLUE
- 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

**MECHANICAL OUTLINE**



PMI CONFIDENTIAL AND PROPRIETARY

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS		DATE	TITLE		REV.
DRAWN	SL	9/3/24	OUTLINE		A1
REDRAWN			P1T-DC40G-65-T-292FF-1NS-OPT10M20G		
ISSUED			SIZE	FSCM NO.	DWG NO.
			B	05XQ0	27049560
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± ± .XXX ± 0.01			SCALE 2:1	SHEET 1 OF 1	

**Quantic PMI**  
PLANNED MONOLITHICS  
7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA  
TEL: (301) 662-5019, FAX: (301) 662-1731  
WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM  
ISO 9001 CERTIFIED