

DESCRIPTION

PMI MODEL P1T-DC40G-65-T-292FF-1NS-OPT18G-50OHM IS AN ABSORPTIVE, SINGLE POLE, SINGLE THROW FET SWITCH THAT OPERATES FROM DC TO 18 GHZ. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE: ----- DC TO 18 GHz
- ISOLATION: ----- 60 dB TYPICAL
55 dB MINIMUM
- INSERTION LOSS: ----- 4.5 dB TYPICAL
5.0 dB MAXIMUM
- VSWR IN/OUT: ----- 2.0:1 TYPICAL
2.2:1 MAXIMUM
- INPUT POWER: ----- +17 dBm CW MAXIMUM
- SWITCHING SPEED: ----- 6 ns TYPICAL
7 ns MAXIMUM
- RISE/FALL TIME: ----- 1 ns TYPICAL
2 ns MAXIMUM
- CONTROL SIGNAL: ----- TTL "1" = ON - INTERNALLY TERMINATED TO 50 Ω
- VIDEO TRANSIENTS: ----- 300 MHz BW (2 TO 18 GHz) : 85 mV PK-PK
20 MHz BW (2 TO 18 GHz) : 15 mV PK-PK
- DC VOLTAGE: ----- +8 TO +15 V @ 15 mA MAXIMUM
-8 TO -15 V @ 40 mA MAXIMUM
- CONNECTORS: ----- RF: SMA FEMALE
CONTROL: SMC
- SIZE: ----- 33.02 mm x 30.48 mm x 12.70 mm
1.30" x 1.20" x 0.50"
EXCLUDING CONNECTORS
- 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.

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)
-55 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

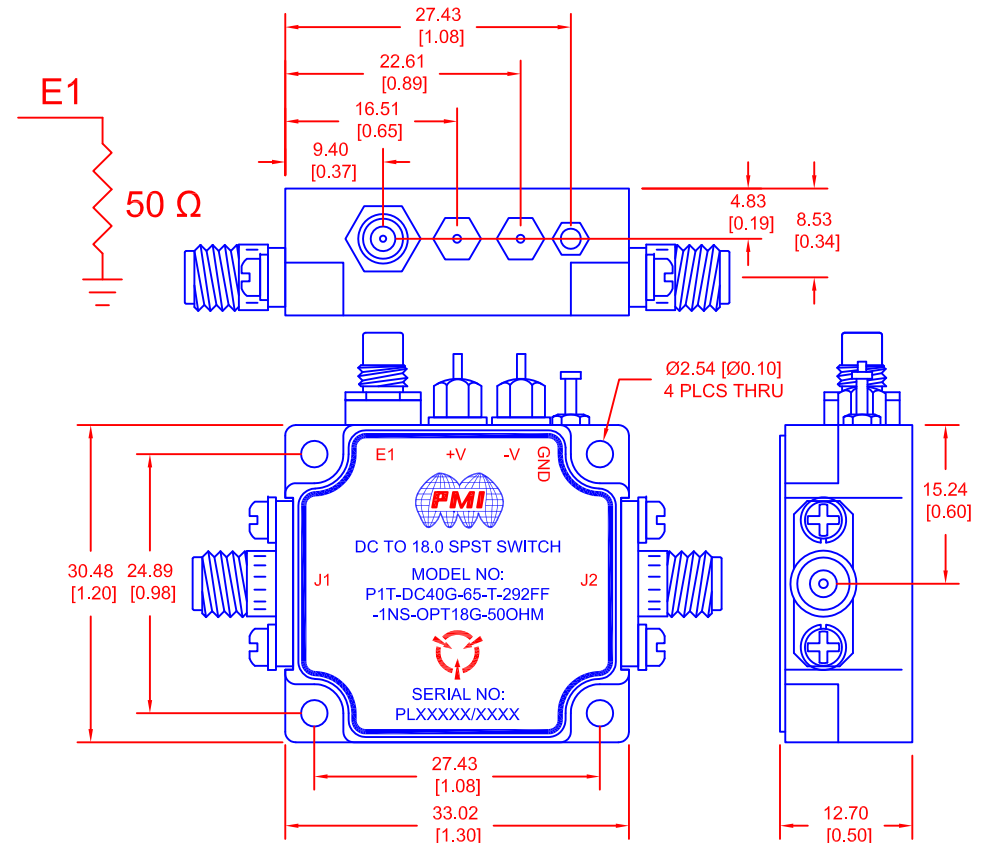
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	07/18/16	
	A1	ECN # 16-0187	12/05/16	
	B1	ECN # 17-0213	09/22/17	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>M. Berry</i>		07/18/16	PRODUCT FEATURE		
CHECKED			P1T-DC40G-65-T-292FF-1NS-OPT18G-50OHM		
ISSUED			DC to 18.0 GHz Absorptive Single Pole Single Throw FET Switch		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27030281	B1		
SCALE N:S			SHEET 1 OF 1		

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX ±0.508 [0.020]
X.XXX ±0.254 [0.010]