

DESCRIPTION

PMI MODEL NUMBER P4T-2G18G-60-T-512-SMPF-LV-HERM IS A 2.0 GHz TO 18.0 GHz, SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH. THIS SWITCH OFFERS 60dB OF PORT TO PORT ISOLATION, AND A MAXIMUM INSERTION LOSS OF 3.2dB. IT HAS A SWITCHING SPEED OF 50ns AND IS INDEPENDENTLY TTL CONTROLLED. THE OPERATING POWER IS +23dBm CW AND THE VSWR IS 2.0:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 18.0 GHz
- INSERTION LOSS: 3.2 dB MAX
- INSERTION LOSS TRACKING BETWEEN PORTS: 0.8 dB WINDOW MAX
- ISOLATION: 60 dB MIN
- VSWR: 2.0:1 MAX
- SPEED: 50ns MAX
- 50% TTL TO 10% / 90% RF
- SWITCHING RATE PRF: 5 MHz
- VIDEO LEAKAGE: 50mV PEAK-PEAK MAX / MEASURED @ 300MHz BW
- INPUT POWER: +23 dBm CW MAX (OPERATING)
- SURVIVAL POWER: +27 dBm CW MAX
- CONTROL TTL: 4 LINE INDEPENDENT
- LOGIC "0" = INSERTION LOSS / (1.6mA MAX SINK @ 0.4V)
- LOGIC "1" = ISOLATION / (40uA MAX SOURCE @ 2.4V)
- POWER SUPPLY: +5VDC @ 120mA MAX
- 12VDC @ 75mA MAX
- RF CONNECTORS: J1: SMP MALE (FULL DETENT)
- J2-J5: SMA FEMALE REMOVABLE
- CONTROL, POWER, AND GROUND: SOLDER PINS
- SEALING: HERMETIC SEALED
- SIZE: 2.000" (L) X 1.000" (W) X 0.400" (H)
- FINISH: GOLD PLATED

TTL LOGIC TABLE	
CONTROL PIN	PATH
E1	J1 - J2
E2	J1 - J3
E3	J1 - J4
E4	J1 - J5

ENVIRONMENTAL RATINGS

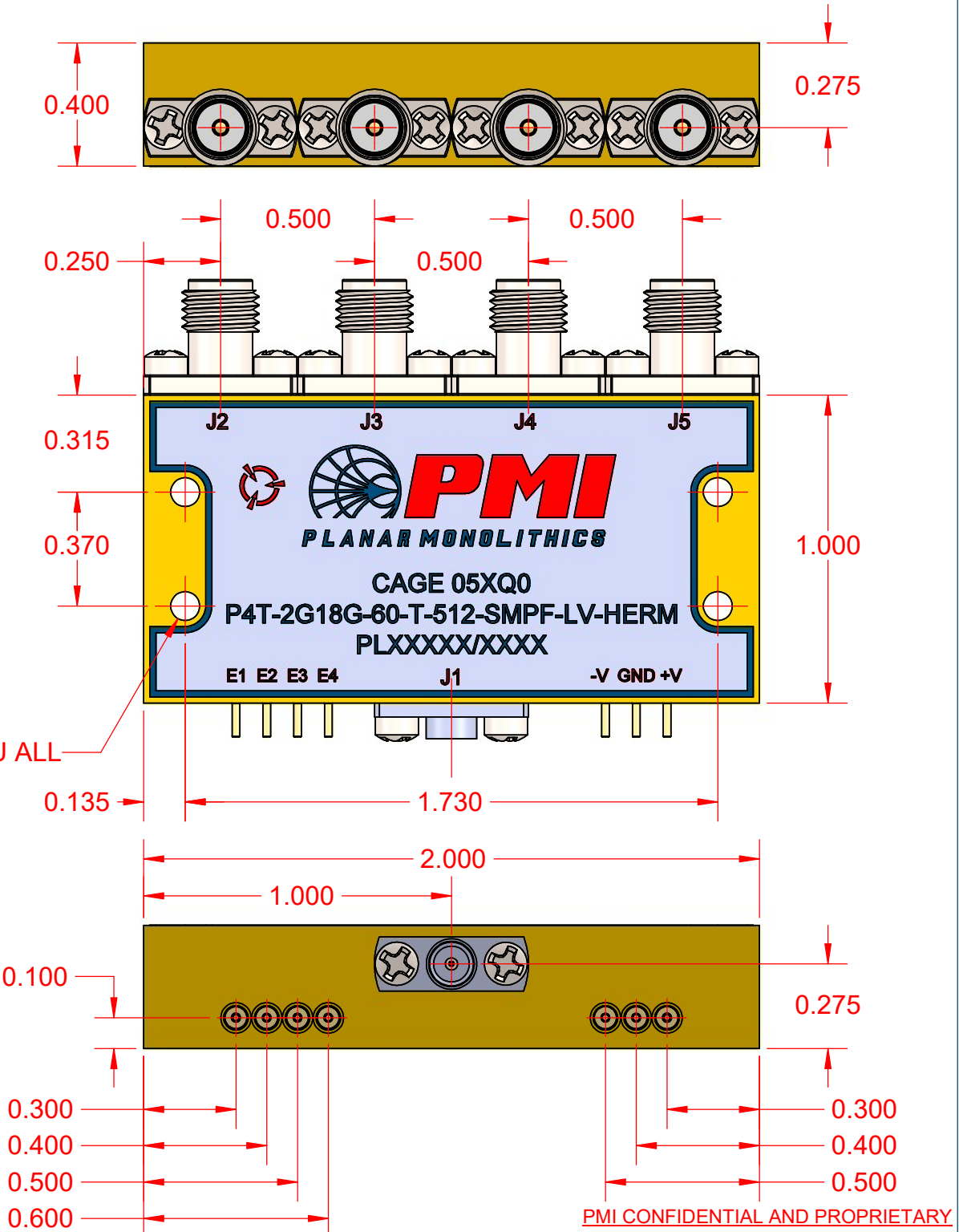
- TEMPERATURE: -54°C TO +85°C (OPERATING)
- 65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. C
- VIBRATION: MIL-STD-202, METHOD 204 COND. G
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 COND. A

NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	PRELIMINARY	07/20/2026	

4X Ø 0.094 THRU ALL



PMI CONFIDENTIAL AND PROPRIETARY

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	APPROVALS		DATE	TITLE P4T-2G18G-60-T-512-SMPF-LV-HERM			
	DRAWN A. SABADOS REDRAWN		07/20/2026				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01	ISSUED			SIZE B	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. 1
				SCALE 2:1		SHEET 1 OF 1	