

## DESCRIPTION

PMI MODEL P5T-500M40G-60-T-55-292FF-5G40G IS AN ABSORPTIVE, SP5T SWITCH THAT OPERATES FROM 500 MHz TO 40 GHz. THE INSERTION LOSS IS < 8dB WITH ISOLATION >60dB. THE SWITCHING SPEED IS 50 ns MAXIMUM. THE SWITCH IS SUPPLIED IN A SMALL HOUSING MEASURING 1.353" DIA X 0.40" THICK.

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 0.5 TO 40.0 GHz  
OPTIMIZED FOR 5 TO 40 GHz.
- ISOLATION: \_\_\_\_\_ 60dB MIN.
- INSERTION LOSS: \_\_\_\_\_ 8.0dB MAX.
- VSWR (IN/OUT): \_\_\_\_\_ 2.5:1 MAX. / 2.0:1 TYP.
- OPERATING INPUT POWER: \_\_\_\_\_ +20dBm CW MAX.
- SWITCHING SPEED (RISE/FALL): \_\_\_\_\_ 15ns TYP.
- SWITCHING SPEED (ON/OFF): \_\_\_\_\_ 50ns MAX.
- DC VOLTAGE & CURRENT: \_\_\_\_\_ +5VDC @ 300mA MAX.  
\_\_\_\_\_ -5VDC @ 100mA MAX.
- CONTROL: \_\_\_\_\_ TTL, (5) INDEPENDENT LINES  
"0" = OFF  
"1" = ON
- CONNECTORS: \_\_\_\_\_ 2.92mm (F)
- FINISH: \_\_\_\_\_ GOLD PLATED

## ENVIRONMENTAL RATINGS

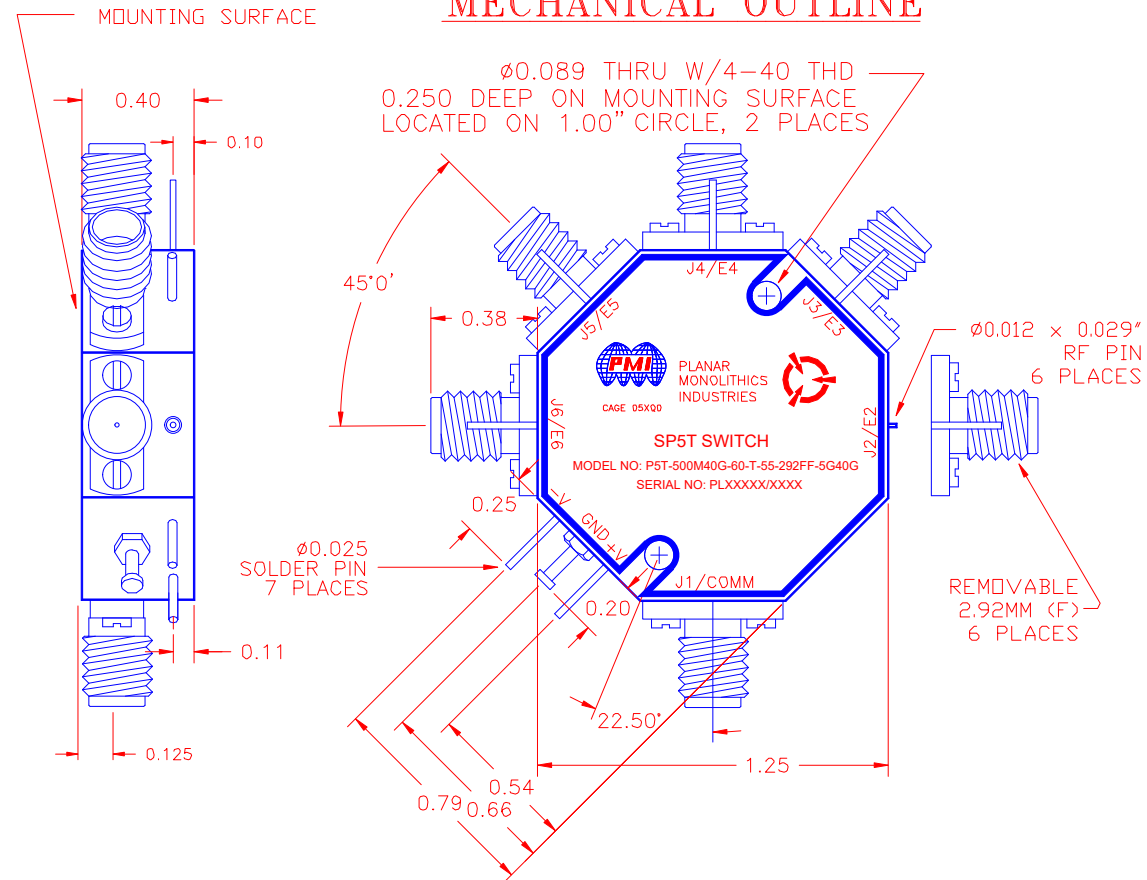
- TEMPERATURE: \_\_\_\_\_ -55°C TO + 85°C (OPERATING)  
\_\_\_\_\_ -65°C TO +125°C (STORAGE)
- HUMIDITY: \_\_\_\_\_ MIL-STD-202F, METHOD 103B COND. B
- SHOCK: \_\_\_\_\_ MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: \_\_\_\_\_ MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: \_\_\_\_\_ MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: \_\_\_\_\_ MIL-STD-202F, METHOD 107D COND. A

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	06/03/13	
	B1	ECN # 13-0171	09/24/13	
	C1	ECN # 25-0162	05/28/25	

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>ANB</i>		06/03/13	PRODUCT FEATURE		
CHECKED			P5T-500M40G-60-T-55-292FF-5G40G		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	05XQ0	27019221
			SCALE	N:S	SHEET 1 OF 1
					REV. C1