

DESCRIPTION

PMI MODEL PXS-6G18G-60-T-SFF-SP IS AN ABSORPTIVE, HIGH SPEED, TWO POLE TRANSFER SWITCH CAPABLE OF SWITCHING WITHIN 70 ns MAXIMUM. THE FREQUENCY RANGE IS 6.0 GHz TO 18.0 GHz. THIS SWITCH HAS > 60 dB ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: 6.0 GHz TO 18.0 GHz
- IMPEDANCE: 50 Ω
- INPUT POWER: +27dBm (0.5 WATT) MAX
- INPUT/OUTPUT VSWR: 2.0:1 MAX
- INSERTION LOSS: 3.5dB MAX
- INSERTION LOSS RIPPLE: ±0.75dB MAX
- ISOLATION: 60dB MIN
- SWITCHING SPEED: 70ns MAX (50% TTL TO 10%/90% RF)
- RISE/FALL TIME: 70ns (10%/90% RF)
- SWITCHING RATE PRF: 1 MHz
- VIDEO LEAKAGE: 50mv P-P at 350MHz BW
- DC VOLTAGE: +5VDC (±5%) / 120mA MAX (VDC + CTL LINES)
-12VDC (±5%) / 120mA MAX
- CONTROL: SOLDER PIN
TTL LOGIC - SEE TABLE
***SURGE PROTECTION INCLUDED ON TTL LINES**
- CONNECTORS IN/OUT: SMA (F)
- SIZE: (L) 1.2" X (W) 1.2" X (H) 0.5"
- 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.
- SEALING: CONDUCTIVE HARD EPOXY SEAL, UNLESS OTHERWISE SPECIFIED

TTL LOGIC TABLE

TTL LOGIC	LOW LOSS	ISOLATION
"0" 1.6mA Max Sink @ 0.4V	J1 - J2 J3 - J4	J1 - J4 J2 - J3
"1" 40uA Max Sink @ 2.4V	J1 - J4 J2 - J3	J1 - J2 J3 - J4

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

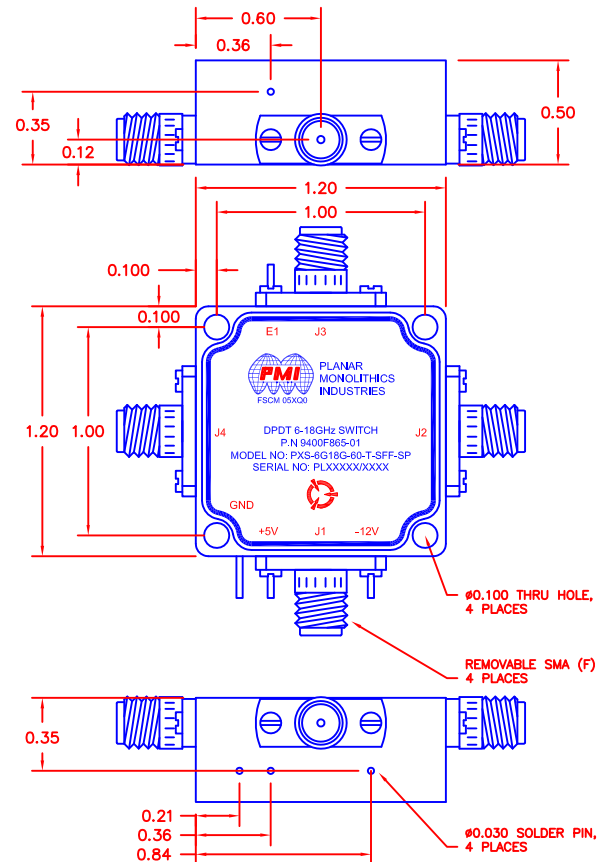
ENVIRONMENTAL RATINGS (Designed to Meet)

- TEMPERATURE: -45°C TO + 85°C (OPERATING)
-54°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
- SALT AND FOG: MIL-STD-202F, METHOD 101D-EST COND. B
- THERMAL SHOCK: MIL-STD-202F, METHOD 101D COND. A
- FUNGUS: MIL-STD-810F, METHOD 508.5
- EMI/EMC: MIL-STD-461E

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/19/2020	
	A2	ECN # 21-0136	8/16/2021	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE			
DRAWN <i>JPH</i>		5/19/2020	PRODUCT FEATURE PXS-6G18G-60-T-SFF-SP			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27038940	REV. A2
ISSUED			SCALE N:S	SHEET 1 OF 1		