

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER P2T-2G18G-55-T-512-SFF-LV-SP-QB IS A TERMINATED SINGLE POLE, TWO THROW SWITCH THAT OPERATES FROM 2.0GHz TO 18.0GHz WHICH HANDLES +23dBm CW INPUT POWER. THE PORT TO PORT ISOLATION IS 55dB MINIMUM. THIS MODEL HAS LOW INSERTION LOSS WHILE STILL OFFERING A FAST SWITCHING SPEED OF 50nsec MAXIMUM.

SPECIFICATIONS:

- FREQUENCY: 2.0 GHz TO 18.0 GHz
- INSERTION LOSS: 3.0dB Maximum
- ISOLATION: 55dB Minimum
- VSWR: 2.0:1 Maximum
- INPUT POWER: +23dBm CW MAXIMUM (OPER.)
+27dBm CW MAXIMUM (SURV.)
- SWITCHING SPEED: 50nsec Maximum
Ton = 50% TTL to 90% RF
Toff = 50% TTL to 10% RF
- SWITCHING RATE PRF: 5MHz
- VIDEO LEAKAGE: 50mV Peak To Peak Maximum Measured At 300MHz BW
- CONTROL: (2 LINES) -TTL Logic "0" = Insertion Loss (1.6mA Max. Sink @ 0.4V)
TTL Logic "1" = Isolation (40µA Max. Source @ 2.4V)
***SURGE PROTECTION INCLUDED ON TTL LINES**
- DC VOLTAGE: 80mA @ +5VDC Typical
80mA @ -12VDC Typical
- CONNECTORS: SMA FEMALE - Passive Stainless Steel
- POWER AND CONTROL - SOLDER PINS
- SIZE: 1.00 X 1.00 X 0.50 (H)
- WEIGHT: 1.5 OZ. TYPICAL
- SEALING: UNLESS OTHERWISE SPECIFIED, PMI WILL SUPPLY EPOXY SEAL
- 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.

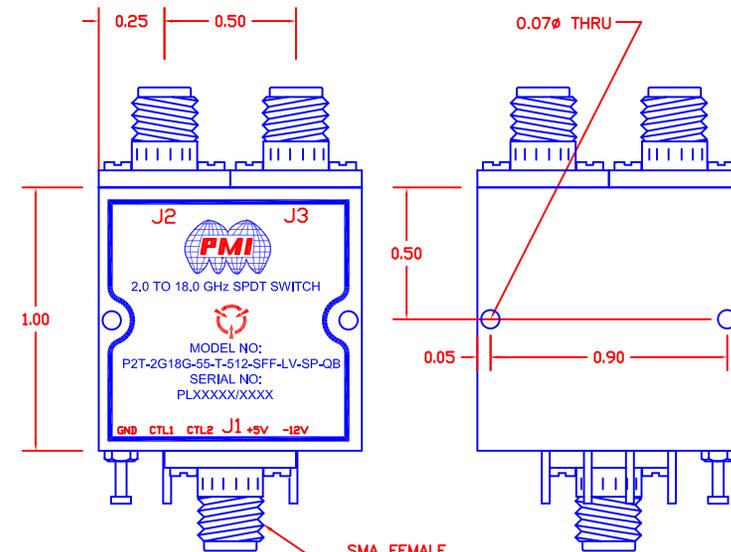
ENVIRONMENTAL RATINGS

- TEMPERATURE: -45°C TO +90°C (OPERATING)
-54°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. C
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- SALT 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

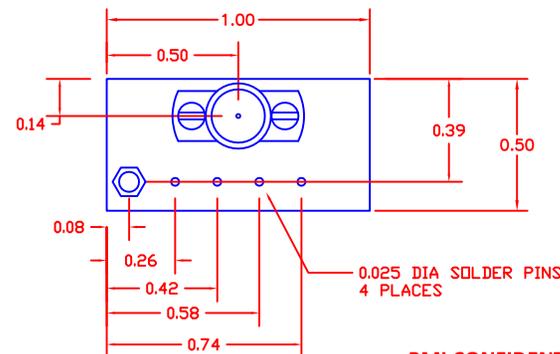
LOGIC TABLE		
CTL1	CTL2	FUNCTION
0	0	*INSERTION LOSS (ALL ON)
0	1	J1 - J2
1	0	J1 - J3
1	1	ISOLATION (ALL OFF)

*NOT TO SPECIFIED VALUES

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	02/10/22	



SMA FEMALE CONNECTOR 3 PLACES



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



Note: Environmental testing and ESS will be met, but actual testing is not done by PMI. Actual screening is available for an additional charge.
NOTE: CHANGES TO DRAWING OR SPECIFICATIONS MUST BE APPROVED BY THE END USER

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

APPROVALS		DATE	TITLE			
DRAWN <i>ML</i>		02/10/22	PRODUCT FEATURE			
REDRAWN			P2T-2G18G-55-T-512-SFF-LV-SP-QB			
ISSUED			SP2T SWITCH			
SIZE	FSCM NO.	DWG NO.	REV.			
A	05XQ0	27044020	A1			
SCALE N:S		SHEET		1 OF 1		