

DESCRIPTION

PMI MODEL P20T-0R5G18G-80-T-515-SFF-SP IS A 0.5 TO 18 GHz SP20T SWITCH FEATURING 65 dB ISOLATION, 7.5 dB INSERTION LOSS, AND 0.5 dB AMPLITUDE TRACKING.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18.0 GHz
- ISOLATION: 65 dB MIN
- INSERTION LOSS: 5.5 dB GOAL
7.5 dB MAX
- AMPLITUDE TRACKING : 0.5 dB PEAK TO PEAK MAX
(ALL OUTPUT PORTS)
- VSWR IN / OUT: 2.0:1 MAX
1.8:1 TYP
- INPUT POWER (OPERATING): 23 dBm CW MAX
10 W PEAK MAX (1 μs PULSE WIDTH)
- RF SWITCHING SPEED: 1 μs MAX
- DC VOLTAGE: +5 VDC ±5% @ 500 mA MAX
-12 TO -15 VDC @ 200 mA MAX
- CONTROL SIGNAL: TTL LOGIC - 5 BIT DECODED
(SEE LOGIC TABLE FOR DETAILS)
- CONNECTORS: RF: SMA FEMALE x21
DC & CONTROL: SOLDER PINS
- FINISH: GOLD PLATED

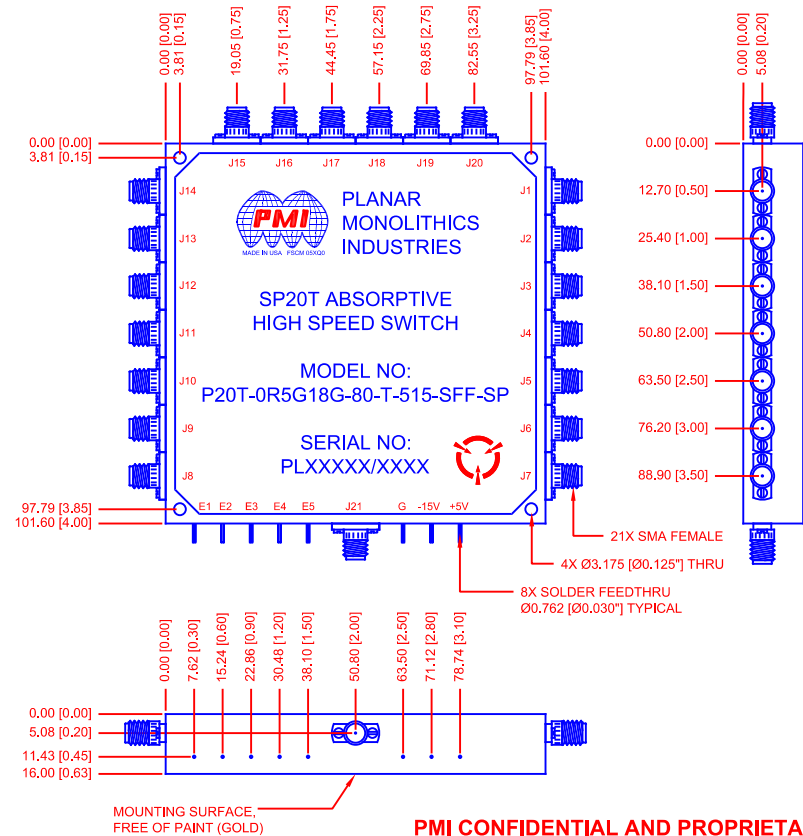
ENVIRONMENTAL RATINGS

- TEMPERATURE: -65 °C TO +85 °C (OPERATING)
-65 °C TO +95 °C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103 COND. B
- SHOCK: MIL-STD-202, METHOD 213 COND. B
- VIBRATION: MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107 COND. A

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

LOGIC TABLE						
5 BIT DECODER						
E5	E4	E3	E2	E1	FUNCTION	
1	1	1	1	0	J21 - J1	
1	1	1	0	1	J21 - J2	
1	1	1	0	0	J21 - J3	
1	1	0	1	1	J21 - J4	
1	1	0	1	0	J21 - J5	
1	1	0	0	1	J21 - J6	
1	1	0	0	0	J21 - J7	
1	0	1	1	1	J21 - J8	
1	0	1	1	0	J21 - J9	
1	0	1	0	1	J21 - J10	
1	0	1	0	0	J21 - J11	
1	0	0	1	1	J21 - J12	
1	0	0	1	0	J21 - J13	
1	0	0	0	1	J21 - J14	
1	0	0	0	0	J21 - J15	
0	1	1	1	1	J21 - J16	
0	1	1	1	0	J21 - J17	
0	1	1	0	1	J21 - J18	
0	1	1	0	0	J21 - J19	
0	1	0	1	1	J21 - J20	

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/13/26	
MECHANICAL OUTLINE				



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED

APPROVALS		DATE	TITLE			
DRAWN		AG	PRODUCT FEATURE			
REDRAWN			P20T-0R5G18G-80-T-515-SFF-SP			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX ± 1.016 [0.040]
X.XXX ± 0.254 [0.010]