

DESCRIPTION

PMI MODEL P20T-4G8G-80-T-515-SFF IS AN ABSORPTIVE, SINGLE POLE, TWENTY THROW PIN DIODE SWITCH THAT OPERATES OVER THE 4.0 GHz TO 8.0 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

SPECIFICATIONS

- FREQUENCY RANGE: 4.0 TO 8.0 GHz
- ISOLATION: 80 dB MIN
- INSERTION LOSS: 4.0 dB MAX
- VSWR IN / OUT: 2.0:1 MAX, 1.8:1 TYP
- INPUT POWER (OPERATING): 100 mW MAX CW (HOT SWITCHABLE)
- RF SWITCHING SPEED: 2 μ s MAX (50% TTL TO 90% RF)
2 μ s MAX (10% RF TO 90% RF)
- DC VOLTAGE: +5 VDC (\pm 5%) @ 300 mA MAX
+15 VDC (\pm 2%) @ 200 mA MAX
- CONTROL SIGNAL: TTL LOGIC - 5 BIT DECODED
SEE LOGIC TABLE
- CONNECTORS IN/OUT: SMA FEMALE CONNECTORS
- DC & CONTROL CONNECTORS: SOLDER PINS
- FINISH: MOUNTING SURFACE FREE OF PAINT
BLUE EPOXY POLIMIDE COATING IAW
MIL-C-22750, TYPE I OVER EPOXY
POLIMIDE PRIMER IAW MIL-P-23377,
TYPE I, CLASS 1 OR 3.

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

ENVIRONMENTAL RATINGS

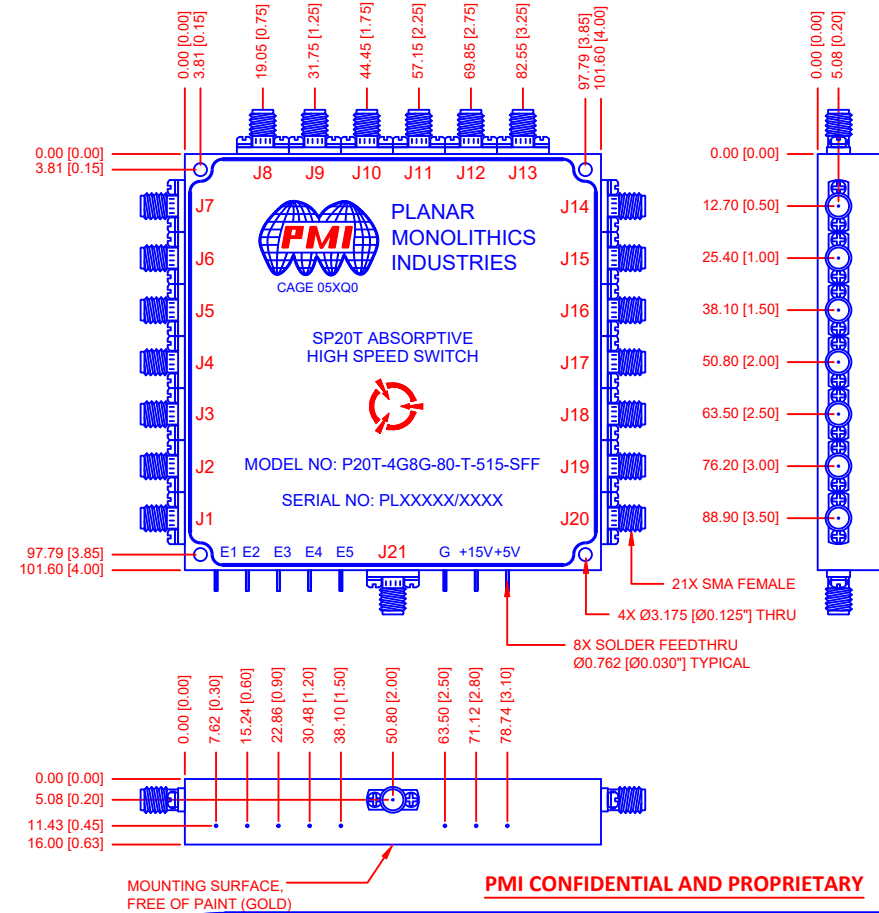
- TEMPERATURE: -20 °C TO +85 °C (OPERATING)
-57 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ECN # 16-0056	04/14/16	
	B1	ECN # 22-0130	08/10/22	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN KM		04/14/16	PRODUCT FEATURE P20T-4G8G-80-T-515-SFF		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27024422-PMI
ISSUED			SCALE N:S		REV. B1
					SHEET 1 OF 1