

DESCRIPTION

PMI MODEL P20T-4G8G-80-T-515-SFF-1 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):..... 100mW MAX CW (HOT SWITCHABLE)
- RF SWITCHING SPEED: 2usec MAX (50% TTL to 90% RF)
2usec MAX (10% RF to 90% RF)
- DC VOLTAGE:..... +5 VDC (+/-5%) @ 300 mA MAX
+15 VDC (+/-2%) @ 200 mA MAX
- CONTROL SIGNAL:..... TTL LOGIC
SEE LOGIC TABLE
- CONNECTORS IN/OUT:..... SMA FEMALE CONNECTORS
- DC & CONTROL CONNECTORS:..... SOLDER PINS
- FINISH: PAINTED BLUE
MOUNTING SURFACE TO BE FREE OF PAINT
- SEALING: HERMETIC

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	0	1	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

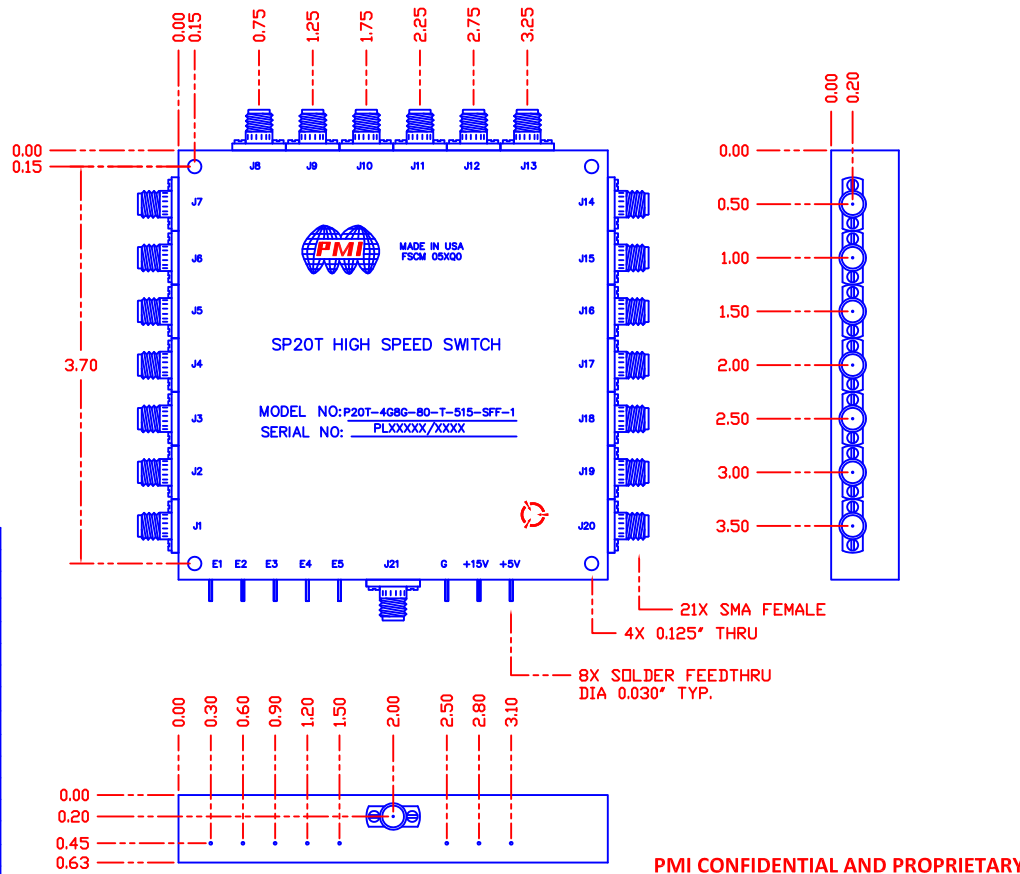
- TEMPERATURE:..... -20°C TO +85°C (OPERATING)
-57°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-E-5400T 3.2.24.4 (100% RH)
- SHOCK:..... MIL-E-5400T 3.2.4.6.1 (15G, 11+/-1msec, 6 Directions)
- VIBRATION:..... MIL-E-5400T 3.2.24.5 Figure 2, Sheet 1 of 3, Curve III
- ALTITUDE:..... 30,000 Feet

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
	-	PRELIMINARY	10/23/14	

MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE		
DRAWN <i>K. MASON</i>		10/23/14	PRODUCT FEATURE P20T-4G8G-80-T-515-SFF-1		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N: S		SHEET 1 OF 1