

DESCRIPTION

PMI MODEL: SWN-218-8DT-MP-IND-OPTF9180W IS AN ABSORPTIVE SP8T PIN DIODE SWITCH OPERATING FROM THE 1.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS FORM, FIT, FUNCTIONAL TO GM P/N: F9180W

SPECIFICATIONS

- FREQUENCY RANGE: ----- 1.0 TO 18.0 GHz
- INSERTION LOSS: ----- 2.0 dB MAX (1 TO 4 GHz)
2.9 dB MAX (4 TO 8 GHz)
3.2 dB MAX (8 TO 12.4 GHz)
4.4 dB MAX (12.8 TO 18 GHz)
- ISOLATION: ----- 65 dB MAX (1 TO 4 GHz)
65 dB MAX (4 TO 8 GHz)
60 dB MAX (8 TO 12.4 GHz)
55 dB MAX (12.8 TO 18 GHz)
- VSWR: ----- 1.7:1 MAX (1 TO 4 GHz)
2.0:1 MAX (4 TO 18 GHz)
- POWER HANDLING: ----- 100 mW CW OR PEAK (INPUT TO OFF PORT)
(NO PERFORMANCE DEGRADATION) 0.5 W CW OR PEAK (INPUT TO ON PORT)
0.5 W CW OR PEAK (INPUT TO COMMON PORT)
- SURVIVAL POWER: ----- 1 W AVG, 10 W PEAK (INPUT TO OFF PORT)*
1 W AVG, 75 W PEAK (INPUT TO ON PORT)*
1 W AVG, 75 W PEAK (INPUT TO COMMON PORT)*
- DELAY ON: ----- 200 ns MAX
- DELAY OFF: ----- 200 ns MAX
- INPUT POWER: ----- +20 dBm CW STANDARD
+10 dBm CW HIGH SPEED
- CONTROL:- ----- TTL LOW ACTIVE
LOGIC "0": (-0.3 TO +0.8 V) FOR PORT ON
LOGIC "1": (+2.0 TO +5.0 V) FOR PORT OFF
- POWER SUPPLY: ----- +5 V @ 100 mA MAX
-12 V TO -15 V @ 50 mA MAX
- CONNECTORS: ----- SMA FEMALE (RF)
MULTI-PIN (J9)
- SIZE: ----- 4.65" x 1.50" x 0.75"
118.11 mm x 38.10 mm x 19.05 mm
- WEIGHT: ----- 8.5 oz TYP
- 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.

* - 1 μs MAX PULSE WIDTH

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -55 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

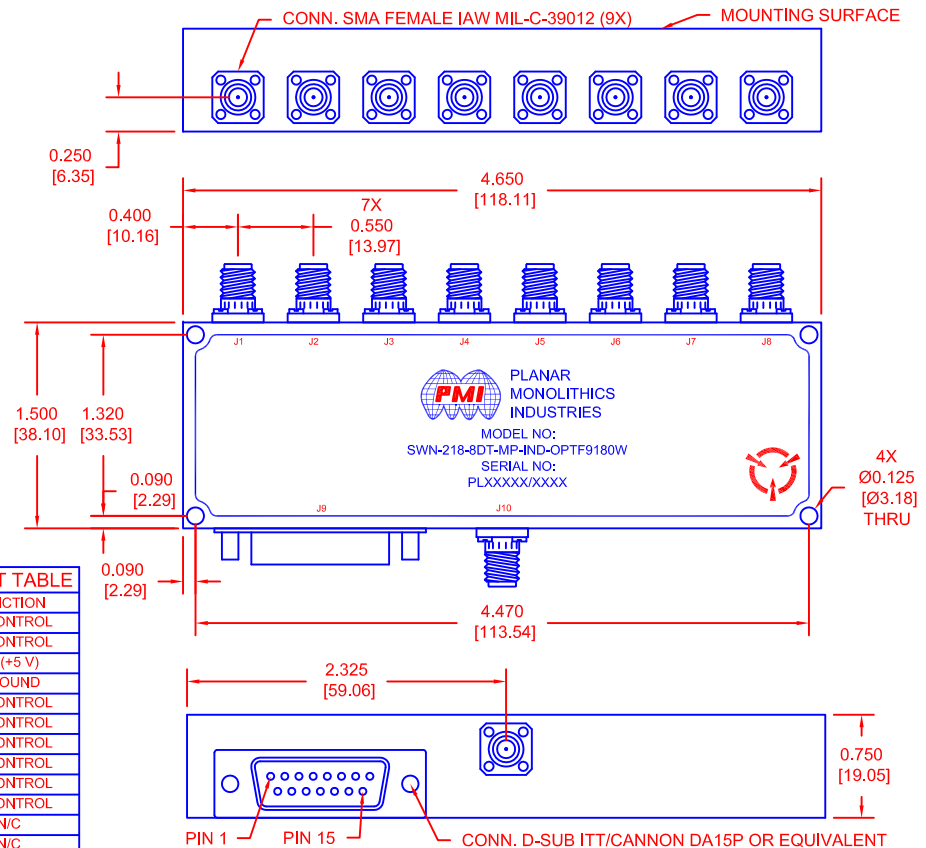
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	09/09/16	

MECHANICAL OUTLINE



J9 PIN OUT TABLE

PIN	FUNCTION
1	J8 CONTROL
2	J6 CONTROL
3	+V (+5 V)
4	GROUND
5	J4 CONTROL
6	J3 CONTROL
7	J2 CONTROL
8	J1 CONTROL
9	J7 CONTROL
10	J5 CONTROL
11	N/C
12	N/C
13	N/C
14	-V (-12 TO -15 V)
15	N/C

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>M. Berry</i>		09/09/16	PRODUCT FEATURE SWN-218-8DT-MP-IND OPTION: F9180W		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S		SHEET 1 OF 1