

DESCRIPTION

AMC MODEL NO.: SWN-218-8DT-MP-IND OPTION F9180W IS AN ABSORPTIVE SP8T PIN DIODE SWITCH OPERATING FROM THE 1 TO 18 GHz FREQUENCY RANGE. IT IS FORM, FIT AND FUNCTIONAL TO GM P/N: F9180W.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	12/20/06	
	A	ECN # 07-020	02/20/07	

SPECIFICATIONS

- FREQUENCY RANGE: 1 TO 18 GHz
- INSERTION LOSS:
 - 1 TO 4 GHz - 2.0 dB MAXIMUM
 - 4 TO 8 GHz - 2.9 dB MAXIMUM
 - 8 TO 12.4 GHz - 3.2 dB MAXIMUM
 - 12.4 TO 18 GHz - 4.4 dB MAXIMUM
- ISOLATION:
 - 1 TO 4 GHz - 65 dB MINIMUM
 - 4 TO 8 GHz - 65 dB MINIMUM
 - 8 TO 12.4 GHz - 60 dB MINIMUM
 - 12.4 TO 18 GHz - 55 dB MINIMUM
- VSWR:
 - 1 TO 4 GHz - 1.7:1 MAXIMUM
 - 4 TO 18 GHz - 2.0:1 MAXIMUM
- POWER HANDLING:
 - INPUT TO ANY "OFF" PORT: 100 mW CW OR PEAK
 - PERFORMANCE: INPUT TO ANY "ON" PORT: 0.5 W CW OR PEAK
 - DEGRADATION: INPUT TO COMMON PORT: 0.5 W CW OR PEAK
- SURVIVAL POWER:
 - INPUT TO ANY "OFF" PORT: 1 W AVERAGE, 10 W PEAK (1 μSEC MAX PULSE WIDTH)
 - INPUT TO ANY "ON" PORT: 1 W AVERAGE, 75 PEAK (1 μSEC MAX PULSE WIDTH)
 - INPUT TO COMMON PORT: 1 W AVERAGE, 75 PEAK (1 μSEC MAX PULSE WIDTH)
- DELAY ON: 200 nS MAXIMUM
- DELAY OFF: 200 nS MAXIMUM
- POWER INPUT: (CW)+20 dBm (STANDARD), +10 dBm (HIGH SPEED)
- CONTROL: TTL LOW ACTIVE
 - LOGIC "0": (-0.3 TO +0.8V) FOR PORT ON
 - LOGIC "1": (+2.0 TO +5.0V) FOR PORT OFF
- POWER SUPPLY:
 - +5V @ 100 mA MAXIMUM
 - 12V TO -15V @ 50 mA MAXIMUM
- CONNECTORS:
 - RF: SMA FEMALE
 - CONTROL: MULTI-PIN
- SIZE: 4.65" (L) x 1.50" (W) x 0.75" (H)
- WEIGHT: 8.5 OUNCE TYPICAL

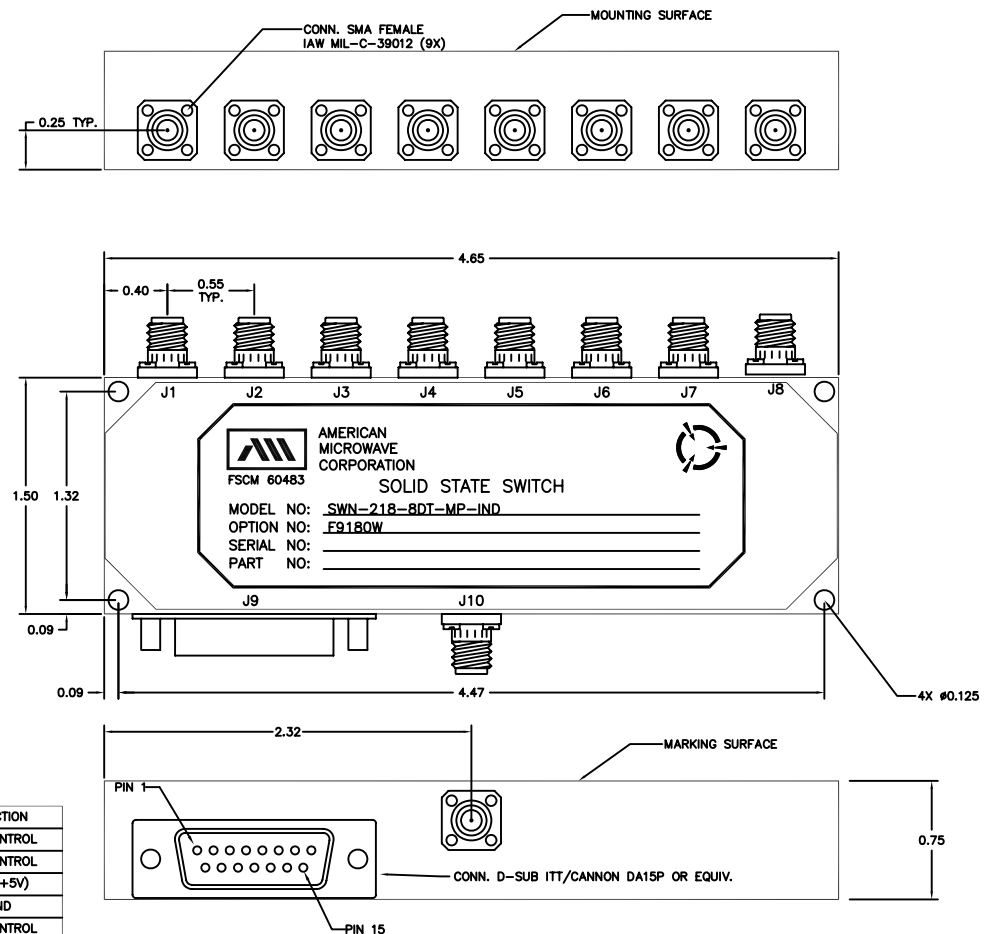
OPTIONS:

- F9180W: FORM, FIT AND FUNCTIONAL TO GM P/N: F9180W

ENVIRONMENTAL RATINGS:

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

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



PIN	FUNCTION
1	J8 CONTROL
2	J6 CONTROL
3	+V (+5V)
4	GND
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~-15V)
15	N/C

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

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APPROVALS		DATE	TITLE			
DRAWN <i>WLP</i>		12/20/06	PRODUCT FEATURE SWN-218-8DT-MP-IND OPTION: F9180W SP8T ABSORPTIVE PIN DIODE SWITCH			
CHECKED <i>RA</i>		02/20/07	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7738-000	A
			SCALE	SHEET		1 OF 1