

## DESCRIPTION

AMC MODEL SWN-218-2DR-IND-SMC OPTION F9120AH-33 IS A SPDT REFLECTIVE PIN DIODE SWITCH DESIGNED FOR THE 1 TO 18 GHz FREQUENCY RANGE.

## SPECIFICATIONS:

FREQUENCY RANGE: ..... 1 - 18 GHz

INSERTION LOSS: ..... 1 GHz TO 4 GHz: 1.1db MAX  
 4 GHz TO 8 GHz: 1.4db MAX  
 8 GHz TO 12.4 GHz: 2.0db MAX  
 12.4 GHz TO 18 GHz: 2.5db MAX

ISOLATION: ..... 1 GHz TO 12.4 GHz: 60db MINIMUM  
 12.4 GHz TO 18 GHz: 50db MINIMUM

VSWR: ..... 1 GHz TO 12.4 GHz: 1.75:1  
 12.4 GHz TO 18 GHz: 2.0:1

RISE TIME: ..... 10 nSec MAXIMUM (10% RF TO 90% RF)  
 FALL TIME: ..... 10 nSec MAXIMUM (90% RF TO 10% RF)  
 DELAY ON: ..... 25 nSec MAXIMUM (50% TTL TO 90% RF)  
 DELAY OFF: ..... 20 nSec MAXIMUM (50% TTL TO 10% RF)  
 REPETITION TIME: ..... 20MHz MAXIMUM

CONTROL INPUT IMPEDANCE:

..... TTL ADV. SCHOTTKY ONE UNIT LOAD.  
 (A UNIT IS 0.6mA SINK CURRENT, 20uA SOURCE)

CONTROL LOGIC: ..... TTL LOGIC "0" (-0.3 TO +0.8V) = PORT ON  
 TTL LOGIC "1" (+2.0 TO +5.0V) = PORT OFF

DC POWER: ..... +5 VDC ±5% @ 60 mA MAXIMUM  
 -12 TO -15 VDC ±5% @ 50 mA MAXIMUM

SIZE: ..... 1.10"(L) x 0.85"(W) x 0.38"(H)

## OPTIONS:

F9120AH-33: ..... CUSTOMER SPECIFICATIONS  
 EMI FILTER SOLDER TYPE BIAS/CONTROL TERMINALS

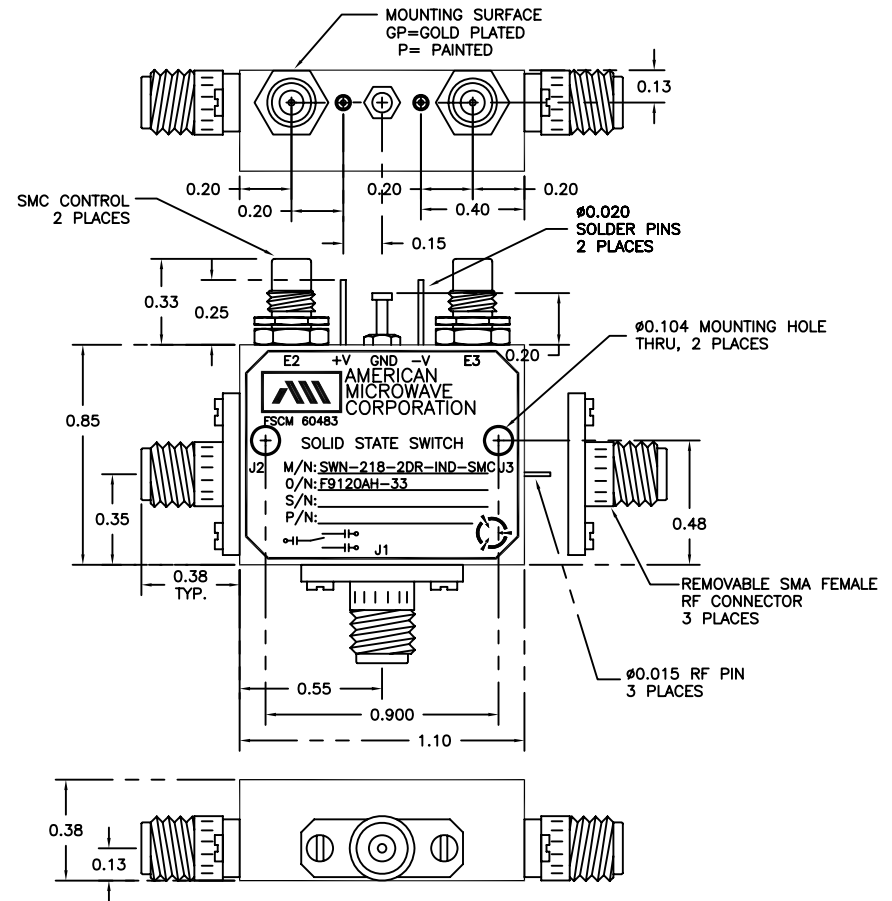
## ENVIRONMENTAL RATINGS

- **TEMPERATURE:** ..... -65°C TO +85°C (OPERATING)  
 -65°C TO +125°C (NON-OPERATING)
- **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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	12/20/06	
	A	ECN # 07-018	02/20/07	



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 ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>PRB</i>		12/20/06	PRODUCT FEATURE SWN-218-2DR-IND-SMC			
REDRAWN <i>RA</i>		02/20/07	OPTIONS: F9120AH-33 1 TO 18 GHz SINGLE POLE TWO THROW SWITCH			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-7736-000	A
			SCALE N:S			SHEET 1 OF 1