

DESCRIPTION

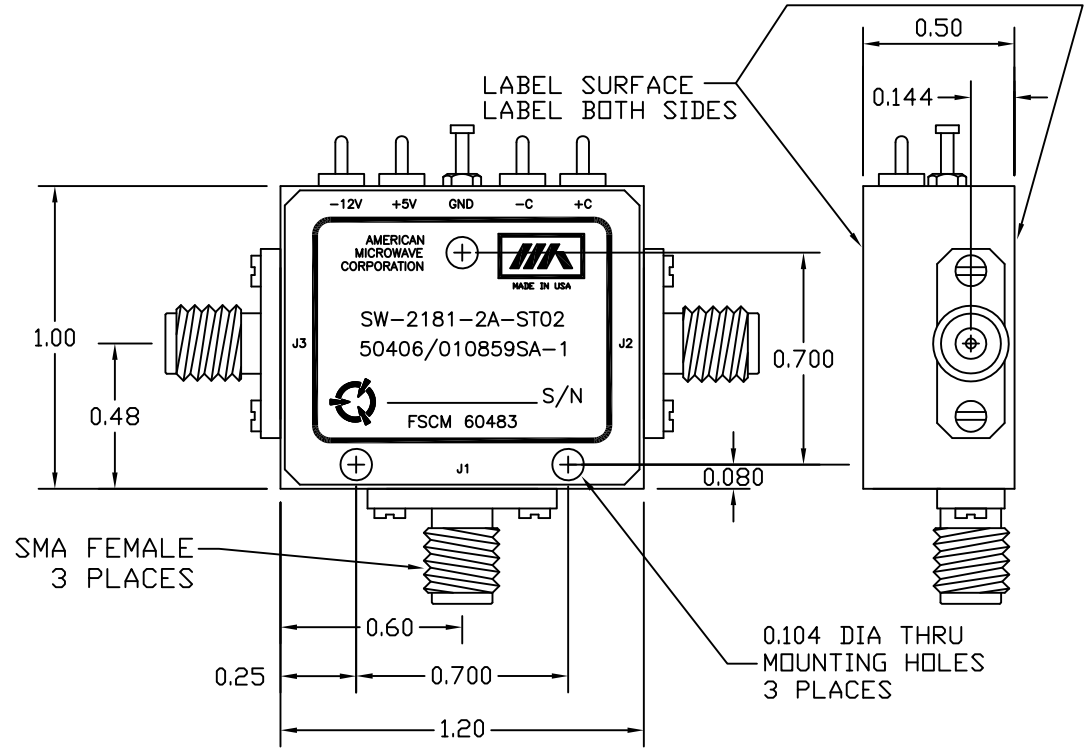
AMC MODEL SW-2181-2A-ST02 IS A SINGLE POLE TWO THROW, REFLECTIVE SWITCH MODULE WITH AN INTEGRAL BALANCED ECL DRIVER, DESIGNED FOR ULTRA FAST SWITCHING APPLICATIONS AND WITH LOW INSERTION LOSS.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB# 20374E	11/20/92	AKS
	B	SEE ECN# 11-098	10/19/11	RA
	C	SEE ECN# 12-019	4/12/12	RA

SPECIFICATIONS

- FREQUENCY RANGE 2 - 18GHz
- INSERTION LOSS 3.3 dB MAXIMUM
- ISOLATION 45 dB MINIMUM
- VSWR (ON) 2:1 MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 5 nS MAXIMUM
 - FALL (90% RF TO 10% RF) 5 nS MAXIMUM
 - ON (50% CTL TO 90% RF) 10 nS MAXIMUM
 - OFF (50% CTL TO 10% RF) 10 nS MAXIMUM
- CONTROL BALANCED ECL PAIRS (-C,+C) (100Ω INPUT IMPEDANCE).
- RF POWER RATINGS : +20 dBm CW MAXIMUM
- POWER SUPPLY +5V @ 100mA MAXIMUM
-12V @ 100mA MAXIMUM
- CONNECTORS
 - RF INPUT/OUTPUT SMA FEMALE
 - POWER SOLDER PIN
 - CONTROL SOLDER PIN
- SIZE 1.2" x 1.0" x 0.5"
- WEIGHT: 1.0 OZ. MAX.

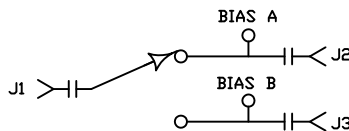
MECHANICAL OUTLINE



C+	C-	RF PATH
1	0	J1-J2
0	1	J1-J3

LOGIC "0" = -2.0V TO -1.4V
LOGIC "1" = -1.2V TO -0.7V

BLOCK DIAGRAM



ENVIRONMENTAL RATINGS:

- TEMPERATURE: 0°C TO +85°C (OPERATING)
-62°C TO +85°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 107D COND. A

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

- X.XX ±0.01
- X.XXX ±0.005

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN <i>R AFABLE</i>	11/20/92	PRODUCT FEATURE SW-2181-2A-ST02	
CHECKED		SIZE	FSCM NO.
ISSUED		A	60483
		DWG NO.	100-2759
		SCALE	SHEET 1 of 1
		REV.	C