

## DESCRIPTION

AMC MODEL SW-2184-1A-243 IS A REFLECTIVE SPST SWITCH/MODULATOR WITH INTEGRAL TTL DRIVER, DESIGNED TO MAINTAIN VERY LOW IN-BAND VIDEO TRANSIENT SIGNALS, AND ULTRA FAST SWITCHING RESPONSE TIME.

## SPECIFICATIONS

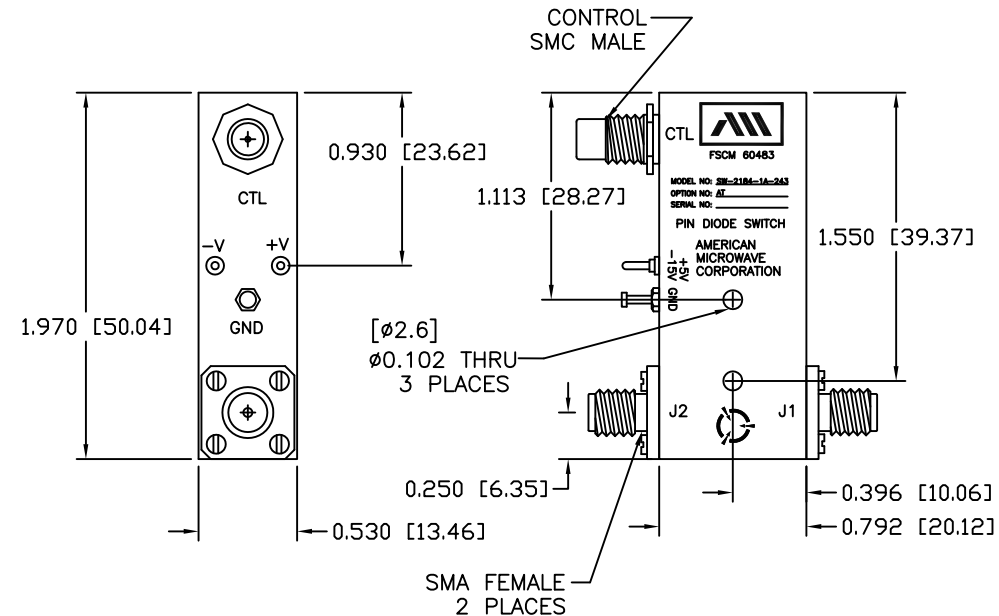
- FREQUENCY RANGE ..... 2-18 GHz MINIMUM
- INSERTION LOSS ..... 2-12 GHz, 2.5 dB MAXIMUM  
12-18 GHz, 3.1 dB MAXIMUM
- ISOLATION ..... 80 dB MINIMUM
- VSWR (ON) ..... 2.0:1 MAXIMUM
- SWITCHING TIME  
RISE (10% RF TO 90% RF) ..... 4 ns MAXIMUM  
FALL (90% RF TO 10% RF) ..... 4 ns MAXIMUM  
ON (50% TTL TO 90% RF) ..... 15 ns MAXIMUM  
OFF (50% TTL TO 10% RF) ..... 15 ns MAXIMUM
- RF POWER RATINGS ..... 2W CW MAXIMUM,  
10W PEAK (1  $\mu$ s pw) MAXIMUM
- CONTROL ..... STANDARD TTL  
LOGIC "0" = INSERTION LOSS  
LOGIC "1" = ISOLATION
- IN-BAND VIDEO POWER/TRANSIENTS ..... 50mV P-P IN 20 MHz BANDWIDTH
- POWER SUPPLY ..... +5VDC  $\pm$ 5% @ 100 mA MAXIMUM  
-15VDC  $\pm$ 5% @ 45 mA MAXIMUM
- CONNECTORS  
RF INPUT/OUTPUT ..... SMA (FEMALE)  
POWER ..... SOLDER PIN  
CONTROL ..... SMC (MALE)
- SIZE ..... 0.792" x 1.97" x 0.53"

## AVAILABLE OPTIONS

- A01 ..... 50  $\Omega$  CONTROL IMPEDANCE
- A02 ..... 100 $\Omega$  CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" INSERTION LOSS)
- A14 ..... J1 SMA MALE, J2 SMA FEMALE
- A15 ..... TWO SMA MALE CONNECTORS
- A16 ..... SOLDER PIN CONTROL TERMINAL
- A17 ..... SMA MALE CONTROL TERMINAL
- A18 ..... SMA FEMALE CONTROL TERMINAL
- AT ..... TERMINATED VERSION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 211282	6/10/93	
	B	SEE ECN# 13-021	4/12/13	RA

## MECHANICAL OUTLINE



### NOTES:

- 1) DIMENSIONS ARE IN INCHES [MILLIMETERS]
- 2) TOLERANCES: X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010
- 3) WEIGHT: APPROX. 1.3 OZ

## ENVIRONMENTAL RATINGS:

- TEMPERATURE: ..... -40°C TO +85°C (OPERATING)  
-65°C TO +125°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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

\* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

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APPROVALS	DATE	<b>PRODUCT FEATURE</b>	
DRAWN <i>WJP</i>	6/10/93	<b>SW-2184-1A-243</b>	
CHECKED		2-18 GHz, REFLECTIVE, LOW VIDEO TRANSIENT, ULTRA FAST SPST PULSE MODULATOR/SWITCH	
		SIZE A	SHEET 1 OF 1
			DWG. # 100-3168