

DESCRIPTION

AMC MODEL SW-2187-1DS IS A REFLECTIVE SPST SWITCH/MODULATOR WITH INTEGRAL ECL DRIVER, DESIGNED TO MAINTAIN A VERY HIGH ISOLATION, LOW IN BAND VIDEO TRANSIENT SIGNALS AND FAST SWITCHING RESPONSE TIME.

SPECIFICATIONS

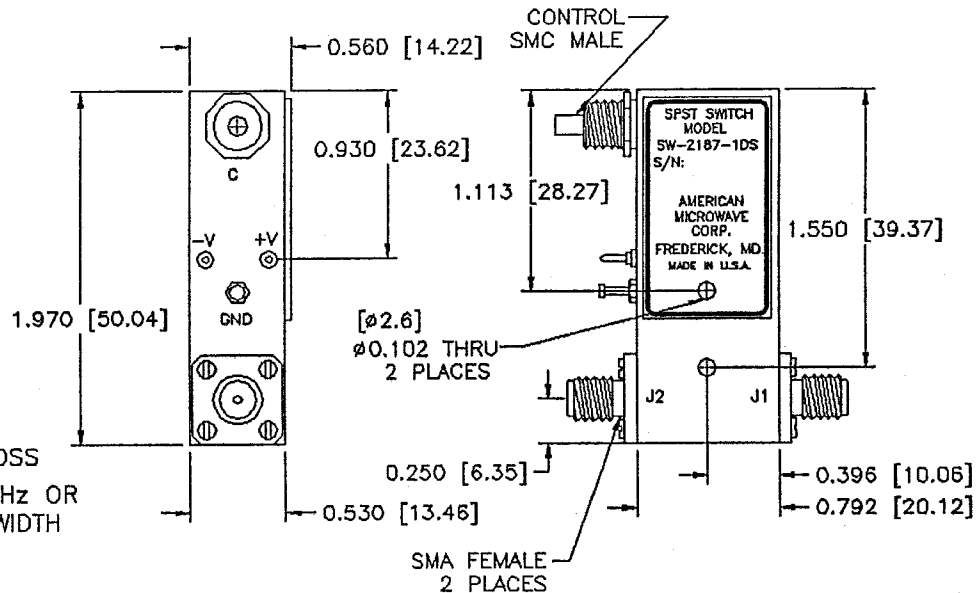
- FREQUENCY RANGE 0.7-18 GHz MINIMUM
- INSERTION LOSS 0.7-18 GHz, 4.0 dB MAXIMUM
- ISOLATION 0.7-1.0 GHz, 95 dB MINIMUM
1.0-18.0 GHz, 110 dB MINIMUM
- VSWR (ON) 1.9:1 MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 10 ns MAXIMUM
 - FALL (90% RF TO 10% RF) 10 ns MAXIMUM
 - ON (50% TTL TO 90% RF) 50 ns MAXIMUM
 - OFF (50% TTL TO 10% RF) 50 ns MAXIMUM
- RF POWER RATINGS 2W CW, 10 W PEAK (1 μ S, PW)
- CONTROL SINGLE ENDED ECL LOGIC
LOGIC "0" (-1.75V)= ISOLATION
LOGIC "1" (-0.9V)= INSERTION LOSS
- IN BAND VIDEO POWER/TRANSIENTS ≤ -70 dBm @ 0.5 GHz TO 18 GHz OR
20 mV (P-P) IN 100 MHz BANDWIDTH
- POWER SUPPLY +5VDC \pm 5% @ 50 mA MAXIMUM
-5VDC \pm 5% @ 50 mA MAXIMUM
- CONNECTORS
 - RF INPUT/OUTPUT SMA (FEMALE)
 - POWER SOLDER PIN
 - CONTROL SMC (MALE)
- SIZE 0.792" x 1.97" x 0.56"

AVAILABLE OPTIONS

- A01 50 Ω CONTROL IMPEDANCE
- A02 100 Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC (LOGIC "0" INSERTION LOSS)
- A05 5 WATTS CW MAXIMUM
- A09 BALANCED ECL LOGIC
- A10 \pm 9VDC TO \pm 18VDC SUPPLY POWER
- A14 J1 SMA MALE, J2 SMA FEMALE
- A15 TWO SMA MALE CONNECTORS
- A16 SOLDER PIN CONTROL TERMINAL
- A17 SMA FEMALE CONTROL TERMINAL
- A18 CANNON MULTIPIN MDM9SSP
- A19 STANDARD TTL CONTROL LOGIC
(LOGIC "0" = INSERTION LOSS)

ZONE		REV.	DESCRIPTION	DATE	APPROVED
A			ORIGINAL RELEASE, NEW DEVELOPMENT	7/30/93	<i>Aug</i>

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 -55°C TO +95°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



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APPROVALS	DATE
DRAWN <i>J. W. G. P.</i>	7/30/93
CHECKED <i>R. H. H. L.</i>	7/31/93

PRODUCT FEATURE

SW-2187-1DS

0.7-18 GHz, REFLECTIVE, LOW VIDEO TRANSIENT, HIGH ISOLATION AND FAST SPST PULSE MODULATOR/SWITCH

SIZE A SHEET 1 OF 2 DWG. # 100-2856