

## DESCRIPTION

AMC MODEL SWM-6000-1DTU IS AN ABSORPTIVE GaAs MMIC SPST SWITCH/MODULATOR WITH INTEGRAL TTL DRIVER, DESIGNED TO MAINTAIN HIGH ISOLATION AND VERY FAST SWITCHING TIME, PACKAGED IN A SMALL RUGGED HOUSING.

## SPECIFICATIONS

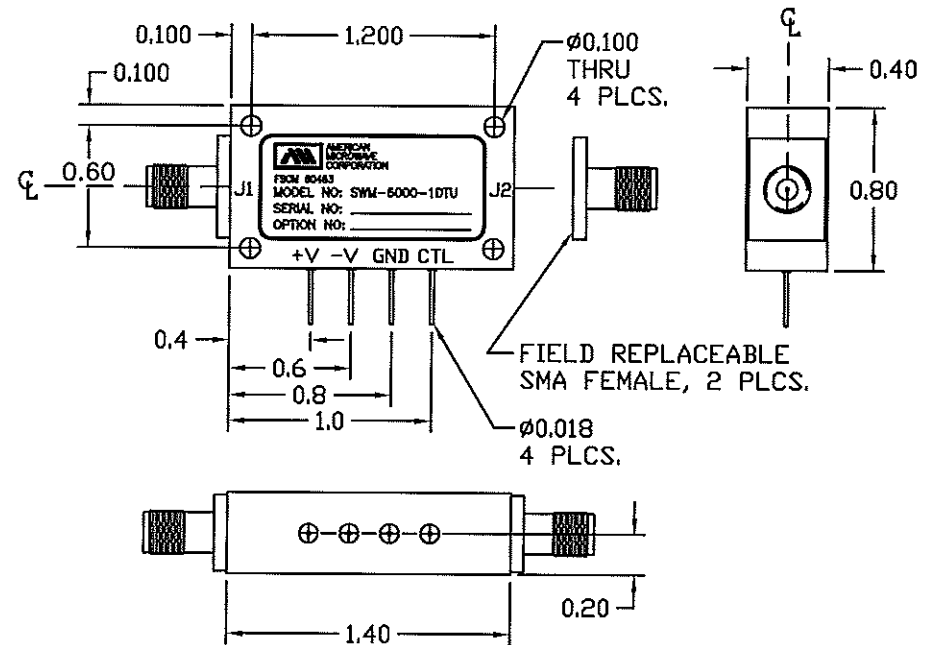
- FREQUENCY RANGE ..... DC-6.0 GHz
- INSERTION LOSS ..... 3.5dB MAX
- ISOLATION ..... 80 dB MINIMUM
- VSWR (ON/OFF) ..... 1.5:1 MAXIMUM
- SWITCHING TIME
  - RISE (10% RF TO 90% RF) ..... 5 nS MAXIMUM
  - FALL (90% RF TO 10% RF) ..... 5 nS MAXIMUM
  - ON (50% TTL TO 90% RF) ..... 15 nS MAXIMUM
  - OFF (50% TTL TO 10% RF) ..... 15 nS MAXIMUM
- RF POWER RATINGS
  - DC-2.0 GHz ..... +22 dBm MAXIMUM
  - 2.0-6.0 GHz ..... +26 dBm MAXIMUM
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD,  
LOGIC "0" ISOLATION  
LOGIC "1" INSERTION LOSS.
- VOLTAGE TRANSIENTS ..... 50 mV P-P, 100 MHz BANDWIDTH
- POWER SUPPLY ..... +5VDC ±5% @ 40 mA MAXIMUM  
-5VDC ±5% @ 40 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT ..... FIELD REPLACEABLE SMA (FEMALE)
  - POWER ..... SOLDER PIN
  - CONTROL ..... SOLDER PIN
- SIZE ..... 1.40" x 0.80" x 0.40"

## AVAILABLE OPTIONS

- 011 ..... TERMINATED
- A01 ..... 50Ω CONTROL IMPEDANCE
- A02 ..... 100Ω CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" INSERTION LOSS)
- A10 ..... ±9VDC TO ±18VDC SUPPLY
- A11 ..... SMC MALE CONTROL CONNECTOR
- A12 ..... SMA FEMALE CONTROL CONNECTOR
- A13 ..... DIFFERENTIAL TTL LOGIC CONTROLS
- A14 ..... J1 SMA MALE, J2 SMA FEMALE
- A15 ..... TWO SMA MALE CONNECTORS

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 10465E	11/22/92	
	B	SEE ECN #04-048	4/12/04	

## MECHANICAL OUTLINE




### NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020  
X.XXX ±0.010
- 3) WEIGHT: APPROX. 2.5 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

		<b>AMERICAN MICROWAVE CORPORATION</b> 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938	
		<b>PRODUCT FEATURE</b> <b>SWM-6000-1DTU</b> DC TO 6 GHz, NON-REFLECTIVE, GaAs MMIC SPST SWITCH/MODULATOR	
DRAWN <i>WJP</i>	11/22/92	CHECKED <i>WJP</i>	4/12/04
SIZE A	SHEET 1 OF 2	DWG. # 100-2826	REV B