

DESCRIPTION

AMC MODEL SWM-6000-1DT IS AN ABSORPTIVE GaAs MMIC SPST SWITCH/MODULATOR WITH INTEGRAL TTL DRIVER, PACKAGED IN A LOW PROFILE HOUSING.

SPECIFICATIONS

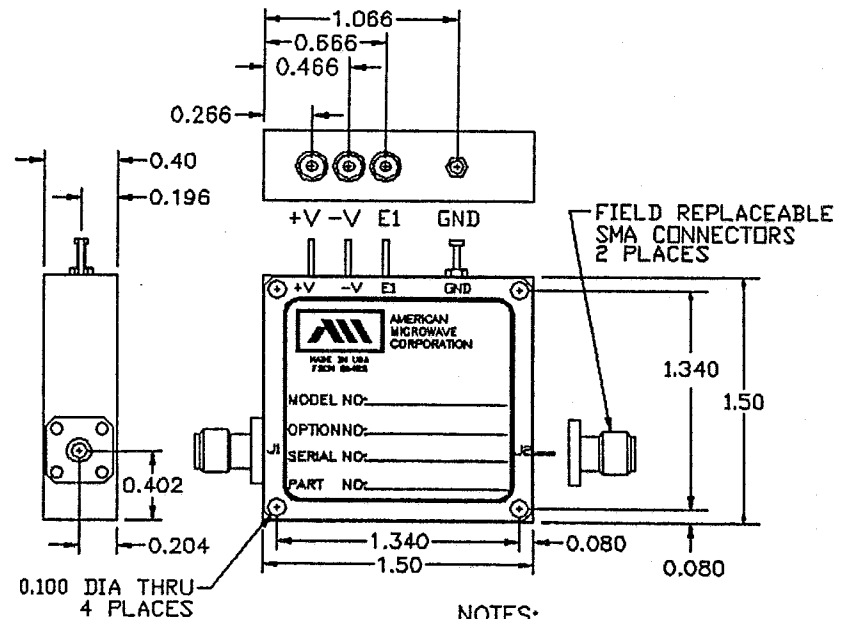
- FREQUENCY RANGE DC-6.0 GHz
- INSERTION LOSS DC-1 GHz, 1.2 dB MAXIMUM
1-2 GHz, 1.4 dB MAXIMUM
2-4 GHz, 1.9 dB MAXIMUM
4-6 GHz, 2.5 dB MAXIMUM
- ISOLATION DC-1 GHz, 50 dB MINIMUM
1-4 GHz, 45 dB MINIMUM
4-6 GHz, 40 dB MINIMUM
- VSWR (ON/OFF) DC-1 GHz, 1.5:1 MAXIMUM
1-2 GHz, 1.8:1 MAXIMUM
2-6 GHz, 2.0:1 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) 20 ns MAXIMUM
OFF (50% TTL TO 10% RF) 20 ns MAXIMUM
- VIDEO TRANSIENTS 30 mV (P-P) MAXIMUM,
300 MHz BW
- RF POWER RATINGS (IDB COMP.)
0.5-6 GHz +20 dBm TYPICAL
0.001 GHz +12 dBm TYPICAL
- CONTROL TTL COMPATIBLE, UNITY LOAD
LOGIC "0" ISOLATION
LOGIC "1" INSERTION LOSS.
- POWER SUPPLY +5VDC ±5% @ 5 mA MAXIMUM
-5VDC ±5% @ 5 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT FIELD REPLACEABLE SMA (FEMALE)
POWER SOLDER PIN
CONTROL SOLDER PIN
NOTE: RF CONNECTORS CAN BE PLACED SIDE BY SIDE OR IN ANGLE.
(CONSULT FACTORY FOR AVAILABLE MECHANICAL OPTIONS)
- SIZE 1.50" x 1.50" x 0.40"

AVAILABLE OPTIONS

- A01 50 Ω CONTROL IMPEDANCE
- A02 100 Ω CONTROL IMPEDANCE
- A03 HERMETIC SEALING (MIL-STD-883)
- A04 ±9V TO ±18V SUPPLY
- A05 INVERSE CONTROL LOGIC (LOGIC "0" = INSERTION LOSS)
- A06 SINGLE ENDED ECL CONTROL LOGIC
- A07 BALANCED ECL CONTROL LOGIC
- A08 DIFFERENTIAL TTL CONTROL LOGIC(R2-422 LOGIC FAMILY)
- A09 HIGH ISOLATION (CONSULT FACTORY)
- A10 SMC MALE CONTROL CONNECTOR
- A11 SMA FEMALE CONTROL CONNECTOR

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 211278E	11/22/92	<i>[Signature]</i>

MECHANICAL OUTLINE



NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020
X.XXX ±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 *[Signature]* 11/22/92

CHECKED *[Signature]* 11/24/92

PRODUCT FEATURE SWM-6000-1DT

DC-6 GHz, GaAs MMIC, NON-REFLECTIVE, LOW INSERTION LOSS AND FAST SPST SWITCH/MODULATOR

SIZE A SHEET 1 OF 2 DWG. # 100-2854