

DESCRIPTION

AMC MODEL SWM-6000-2DT IS AN ABSORPTIVE GaAs MMIC SPDT SWITCH/MODULATOR WITH INTEGRAL TTL DRIVER, PACKAGED IN A LOW PROFILE HOUSING.

SPECIFICATIONS

- FREQUENCY RANGEDC-6.0 GHz
- INSERTION LOSSDC-0.5 GHz, 1.0 dB TYPICAL 1.2 dB MAXIMUM
0.5-1.0 GHz, 1.1 dB TYPICAL 1.6 dB MAXIMUM
1.0-2.0 GHz, 1.4 dB TYPICAL 2.1 dB MAXIMUM
2.0-4.0 GHz, 1.7 dB TYPICAL 2.5 dB MAXIMUM
4.0-6.0 GHz, 2.2 dB TYPICAL 3.0 dB MAXIMUM
- ISOLATIONDC-1.0 GHz, 50 dB TYPICAL 45 dB MINIMUM
1.0-2.0 GHz, 45 dB TYPICAL 40 dB MINIMUM
2.0-4.0 GHz, 30 dB TYPICAL 25 dB MINIMUM
4.0-6.0 GHz, 20 dB TYPICAL 15 dB MINIMUM
- VSWR (ON/OFF)DC-1.0 GHz, 1.5:1 MAXIMUM
1.0-2.0 GHz, 1.7:1 MAXIMUM
2.0-6.0 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 TRANSIENTS30 mV (P-P) TYPICAL, 50 mV MAXIMUM
- RF POWER RATINGS (IDB COMP.)300 MHz BANDWIDTH.
0.5-6 GHz+20 dBm TYPICAL
0.001 GHz+12 dBm TYPICAL
- CONTROLTTL COMPATIBLE, UNITY LOAD
SINGLE CONTROL (TOGGLE)
(SEE LOGIC TABLE)
- POWER SUPPLY+7VDC TO +18VDC ±5% @ 5 mA MAXIMUM
-7VDC TO -18VDC ±5% @ 5 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUTFIELD REPLACEABLE SMA (FEMALE)
POWERSOLDER PIN
CONTROLSOLDER PIN
NOTE: RF CONNECTORS CAN BE PLACED SIDE BY SIDE OR IN ANGLE.
(CONSULT FACTORY FOR AVAILABLE MECHANICAL OPTIONS)
- SIZE1.50" x 1.50" x 0.40"

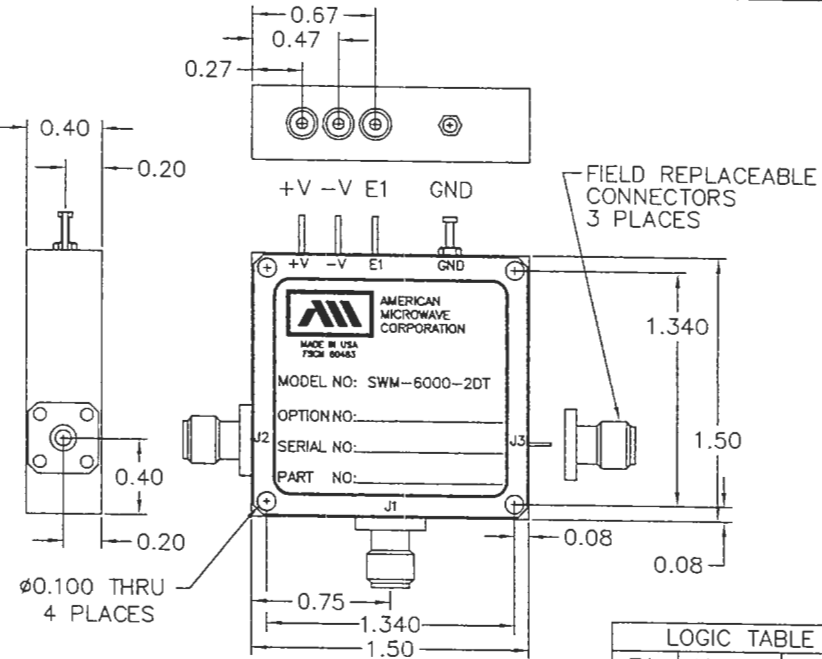
AVAILABLE OPTIONS

- A0150Ω CONTROL IMPEDANCE
- A02100Ω CONTROL IMPEDANCE
- A03HERMETIC SEALING (MIL-STD-883)
- A04±5VDC POWER SUPPLY
- A05INVERSE CONTROL LOGIC (LOGIC "0"= J1-J2 PATH ON)
- A06SINGLE ENDED ECL CONTROL LOGIC
- A07BALANCED ECL CONTROL LOGIC
- A08DIFFERENTIAL TTL CONTROL LOGIC (RS-422 LOGIC FAMILY)
- A09HIGH ISOLATION (CONSULT FACTORY)
- A10SMC MALE CONTROL CONNECTOR
- A11SMA FEMALE CONTROL CONNECTOR
- A12OTHER POWER SUPPLIES (CONSULT FACTORY)

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010
WEIGHT: 1.5 oz.

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE JOB# 211278E	11/22/92	
	B	SEE ECN# 04/036	3/2/04	



LOGIC TABLE		
E1	J1-J2	J1-J3
1	ON	OFF
0	OFF	ON

ENVIRONMENTAL RATINGS

- TEMPERATURE:-55°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

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APPROVALS		DATE	TITLE			
DRAWN	WSP/RRA	11/22/92	PRODUCT FEATURE SWM-6000-2DT			
REDRAWN	JDJ	9/2/04	DC TO 6 GHz, GaAs MMIC, NON-REFLECTIVE, LOW INSERTION LOSS AND FAST SPDT SWITCH/MODULATOR			
ISSUED	LA	9/3/04	SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-2855	-
			SCALE	N:S	SHEET	1 OF 3