

DESCRIPTION

AMC MODEL SWM-6000-1DTU OPTION: 011, 100M4 IS A TERMINATED 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 100 MHz TO 4 GHz
- INSERTION LOSS 100-500 MHz, 2.0 dB MAXIMUM
0.5-3.0 GHz, 2.5 dB MAXIMUM
3.0-4.0 GHz, 3.0 dB MAXIMUM
- ISOLATION 100 MHz-3.0 GHz, 60 dB MINIMUM
3.0-4.0 GHz, 50 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
100 MHz-2.0 GHz +22 dBm MAXIMUM
2.0-4.0 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 $\pm 5\%$ @ 40 mA MAXIMUM
-5VDC $\pm 5\%$ @ 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
- 100M4 OPTIMIZED FROM 100MHz TO 4GHz

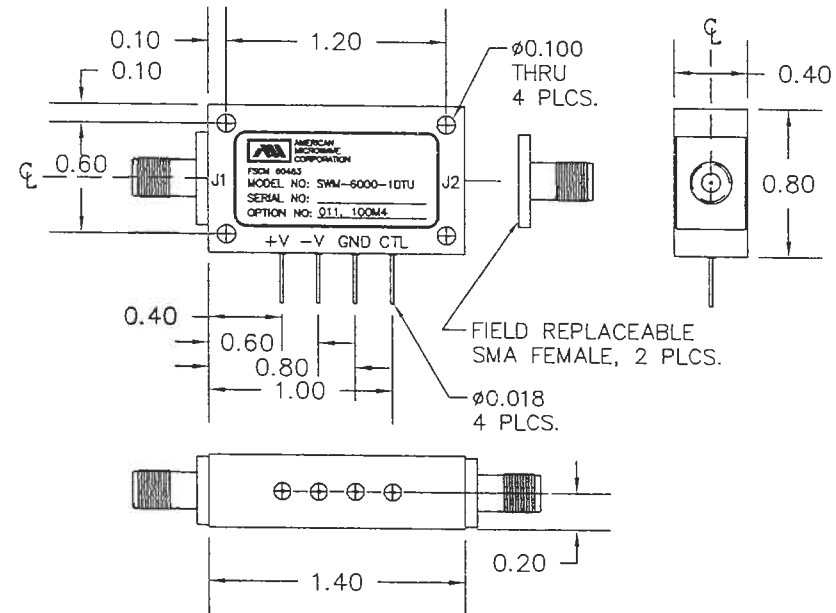
ENVIRONMENTAL RATINGS

- 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

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

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010
WEIGHT: 2.5 oz.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 403055	4/20/04	



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APPROVALS		DATE	TITLE			
DRAWN	<i>EJB</i>	4/20/04	PRODUCT FEATURE SWM-6000-1DTU OPTION: 011, 100M4			
REDRAWN	<i>JDT</i>	8/10/04	100 MHz TO 4 GHz, NON-REFLECTIVE, GaAs MMIC SPST SWITCH/MODULATOR	SIZE	FSCM NO.	DWG NO.
ISSUED	<i>LA</i>	9/3/04	A	60483	100-6968	REV.
			SCALE	N:S	SHEET	1 OF 3