

DESCRIPTION

AMC MODEL SWH-0811-4 IS A REFLECTIVE, ALL SHUNT SP4T SWITCH MODULE WITH INTEGRAL TTL DRIVER, CAPABLE OF HANDLING 2KW PEAK POWER.

SPECIFICATIONS

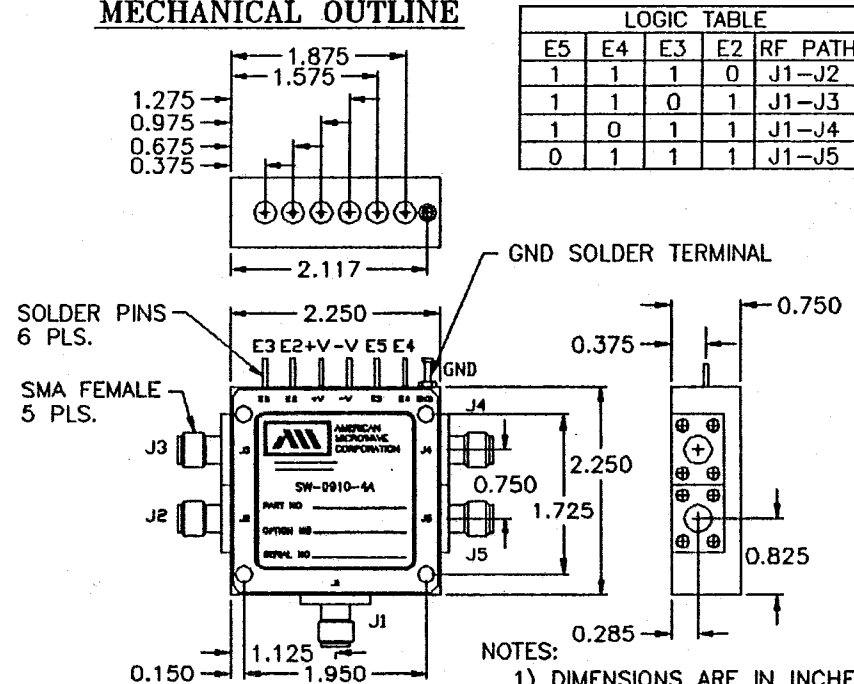
- FREQUENCY RANGE 8.5-10.5 GHz MINIMUM
- INSERTION LOSS 9.0-10.0 GHz 1.8dB MAXIMUM
8.5-10.5 GHz 2.0dB MAXIMUM
- ISOLATION 50dB MINIMUM
- VSWR (ON/OFF) 1.8:1 MAXIMUM
- SWITCHING TIME
RISE (10% RF TO 90% RF) 50nS MAXIMUM
FALL (90% RF TO 10% RF) 100nS MAXIMUM
ON (50% TTL TO 90% RF) 150nS MAXIMUM
OFF (50% TTL TO 10% RF) 250nS MAXIMUM
- CONTROL TTL COMPATIBLE, UNITY LOAD
4 INDEPENDENT CONTROLS
LOGIC "0" PATH ON
LOGIC "1" PATH OFF
(SEE LOGIC TABLE)
- RF POWER RATINGS 2KW PEAK/2W AVERAGE
0.2 TO 1.5 μ S PULSE WIDTH
800 TO 4000 Hz PRF RATE
OR
10W PEAK/5W AVERAGE
0.2 TO 65 μ S PULSE WIDTH
UP TO 150 KHz PRF RATE
- POWER SUPPLY +5VDC \pm 5% @100mA MAXIMUM
-15VDC \pm 5% @ 40mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER SOLDER PIN
CONTROL SOLDER PIN
- SIZE 2.25" x 2.25" x .75"

AVAILABLE OPTIONS

- A01 50 Ω CONTROL IMPEDANCE
- A02 100 Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A14 J1 SMA MALE, J2 TO J5 SMA FEMALE
- A15 J1 SMA FEMALE, J2 TO J5 SMA MALE
- A16 +15VDC POWER SUPPLY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 20379E	11/8/92	<i>UM</i>

MECHANICAL OUTLINE




LOGIC TABLE				
E5	E4	E3	E2	RF PATH
1	1	1	0	J1-J2
1	1	0	1	J1-J3
1	0	1	1	J1-J4
0	1	1	1	J1-J5

- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX \pm 0.020
X.XXX \pm 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

		AMERICAN MICROWAVE CORPORATION 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938	
		PRODUCT FEATURE SWH-0811-4 8.5-10.5 GHz, REFLECTIVE, 2KW PEAK POWER SP4T SWITCH	
APPROVALS	DATE	SIZE	SHEET 1 OF 2
DRAWN: <i>[Signature]</i> CHECKED: <i>[Signature]</i>	11/8/92	A	DWG. # 100-2804