

DESCRIPTION

AMC MODEL SW-2181-3AT IS AN ABSORPTIVE SP3T SWITCH MODULE WITH INTEGRAL TTL DRIVER DESIGNED FOR BROAD BAND AND LOW IN-BAND VIDEO TRANSIENT SIGNAL APPLICATIONS.

SPECIFICATIONS

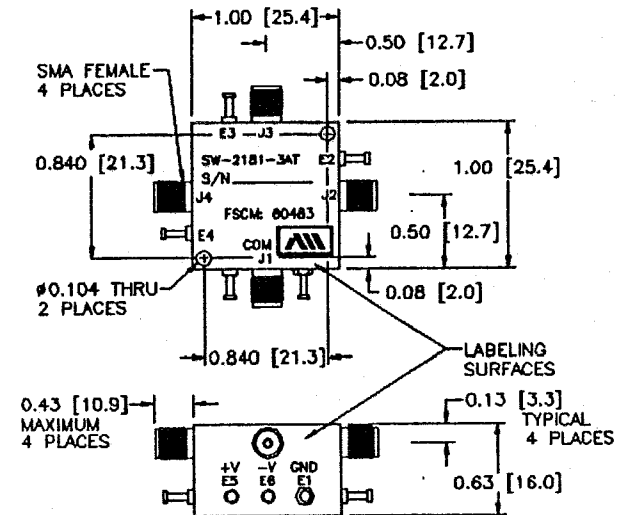
- FREQUENCY RANGE 0.1-18 GHz MINIMUM
- INSERTION LOSS 4.0 dB MAXIMUM
- ISOLATION 60 dB MINIMUM
- VSWR (ON/OFF) 2.0:1 MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 50 ns MAXIMUM
 - FALL (90% RF TO 10% RF) 50 ns MAXIMUM
 - ON (50% TTL TO 90% RF) 150 ns MAXIMUM
 - OFF (50% TTL TO 10% RF) 150 ns MAXIMUM
- RF POWER RATINGS +27 dBm CW MAXIMUM
- IN BAND VIDEO POWER/TRANSIENTS -60 dBm MAXIMUM
- CONTROLS TTL COMPATIBLE, UNITY LOAD
3 INDIVIDUAL CONTROLS
LOGIC "0" = INSERTION LOSS
LOGIC "1" = ISOLATION
(SEE TRUTH TABLE)
- POWER SUPPLY +5VDC ±5% @ 120 mA MAXIMUM
-5VDC ±5% @ 60 mA MAXIMUM
- CONNECTORS
 - RF INPUT/OUTPUT SMA (FEMALE)
 - POWER SOLDER PIN (EMI)
 - CONTROL SOLDER PIN
- SIZE 1.0" x 1.0" x 0.63"

AVAILABLE OPTIONS

- A01 50Ω CONTROL IMPEDANCE
- A02 100Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC (LOGIC "0", ISOLATION)
- A13 ±9VDC TO ±18VDC SUPPLY
- A14 J1 SMA MALE, J2-J4 SMA FEMALE CONNECTORS
- A14 J1 SMA FEMALE, J2-J4 SMA MALE CONNECTORS

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A		ORIGINAL RELEASE, JOB # 202250E-2	11/22/92	<i>[Signature]</i>

MECHANICAL OUTLINE




TRUTH TABLE			
E4	E3	E2	RF PATH ON
1	1	0	J1-J2
1	0	1	J1-J3
0	1	1	J1-J4

- NOTES:
- 1) DIMENSIONS ARE IN INCHES [MILLIMETERS]
 - 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
 - 3) WEIGHT: APPROX. 4.0 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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APPROVES		DATE	
<i>[Signature]</i>		11/22/92	
DRAWN		DATE	
<i>[Signature]</i>		11/22/92	
CHECKED		DATE	
<i>[Signature]</i>		11/22/92	
PRODUCT FEATURE			
SW-2181-3AT-230			
0.1-18 GHz, NON-REFLECTIVE SP3T SWITCH MODULE			
SIZE A	SHEET 1 OF 2	DWG. # 100-2869	