

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 2013	11/22/92	<i>[Signature]</i>

### DESCRIPTION

AMC MODEL SW-2185-4AT IS AN ABSORPTIVE SP4T SWITCH MODULE WITH INTEGRAL TTL DRIVER, DESIGNED FOR BROAD-BAND, VERY HIGH ISOLATION, AND PHASE MATCHED APPLICATIONS.

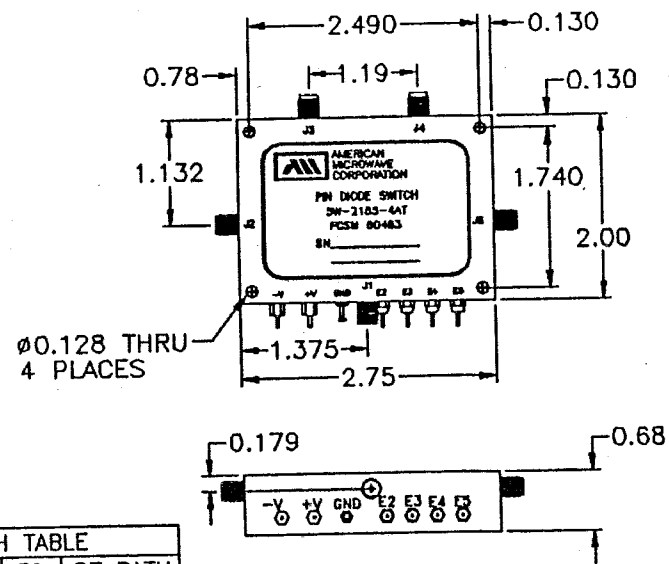
### SPECIFICATIONS

- FREQUENCY RANGE ..... 0.1-20 GHz MINIMUM
- INSERTION LOSS ..... 5.0 dB MAXIMUM
- ISOLATION ..... 110 dB MINIMUM
- VSWR (ON/OFF) ..... 2:1 MAXIMUM
- RF POWER RATINGS ..... 1 WATT CW 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
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD  
4 INDIVIDUAL CONTROLS  
LOGIC "0" = INSERTION LOSS  
LOGIC "1" = ISOLATION  
(SEE TRUTH TABLE)
- POWER SUPPLY ..... +5VDC ±5% @ 250 mA MAXIMUM  
-12VDC ±5% @ 150 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT ..... SMA (FEMALE)
  - POWER ..... SOLDER PIN EMI
  - CONTROL ..... SOLDER PIN
- SIZE ..... 2.75" x 2.00" x 0.68"

### AVAILABLE OPTIONS

- A01 ..... 50Ω CONTROL IMPEDANCE
- A02 ..... 100Ω CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A07 ..... INPUT/OUTPUT VIDEO FILTER (0.5 dB EXCESS LOSS)
- A14 ..... +12 VDC TO +15 VDC SUPPLY
- A15 ..... -15 VDC SUPPLY
- A16 ..... 9 PIN MINIATURE MULTIPIN

### MECHANICAL OUTLINE




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 ±0.020  
X.XXX ±0.010
  - 3) WEIGHT: APPROX. 10 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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		<b>PRODUCT FEATURE</b> <b>SW-2185-4AT</b> 0.1-20 GHz, NON-REFLECTIVE, HIGH ISOLATION SP4T SWITCH MODULE.		
APPROVALS DRAWN: <i>WSP</i> CHECKED: <i>[Signature]</i>	DATE 11/22/92 11/24/92	SIZE A	SHEET 1 OF 2	DWG. # 100-2884