

**DESCRIPTION:**

AMC MODEL SWN-2181-TRA OPTION 910, LVT, NF1 IS A TRANSFER SWITCH MODULE WITH LOW INSERTION LOSS, HIGH ISOLATION, LOW VIDEO TRANSIENTS AND WITH INTEGRAL TTL DRIVER IN A SMALL 1.0" x 1.0" x 0.5" PACKAGE, DESIGNED FOR 9.0 GHz TO 10 GHz OPERATION.

**SPECIFICATIONS:**

- FREQUENCY: ..... 9.0 GHz TO 10 GHz
- INSERTION LOSS: ..... 2.5 dB MAX. @ 10 GHz
- ISOLATION: ..... 50 dB @ 10 GHz
- VSWR (ALL PORTS): ..... 2.0:1
- SWITCHING SPEED:  
(10% RF TO 90% RF) ..... 100 ns  
(90% RF TO 10% RF) ..... 100 ns
- RF POWER: ..... +27 dBm MAXIMUM
- SURVIVAL POWER: ..... 1 WATT CW OR 10 WATT PEAK FOR 1 usec PULSE WIDTH
- CONTROL: ..... TTL SINGLE ENDED 1 BIT
- POWER SUPPLY: ..... +19 VDC @ 75 mA MAXIMUM  
..... -19 VDC @ 75 mA MAXIMUM
- CONNECTORS (RF): ..... SMA FEMALE, 4 PLACES
- CONNECTORS (POWER): ..... SOLDER PINS
- CONNECTORS (CONTROL): ..... SOLDER PINS
- LOGIC "0": ..... J1 TO J2  
..... J3 TO J4
- LOGIC "1": ..... J1 TO J3  
..... J2 TO J4
- VIDEO SUPPRESSION: ..... 5 mV MAXIMUM
- SIZE: ..... 1.00 (L) x 1.00 (W) x 0.50 (H)
- WEIGHT: ..... 1.5 OUNCES TYPICAL

**ENVIRONMENTAL RATINGS:**

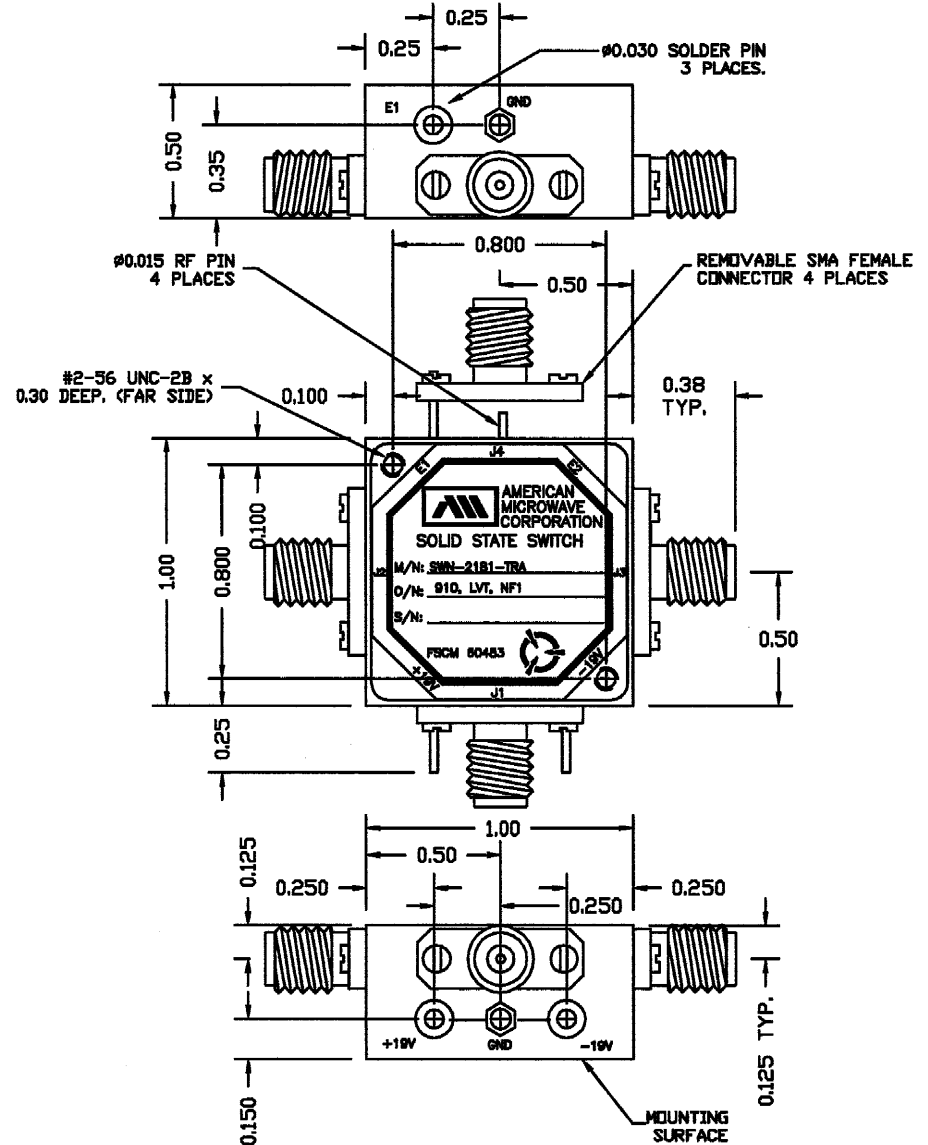
- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)  
..... -65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ..... MIL-STD-202F, METHOD 107D COND. A


NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	9/27/99	



CONTRACT NO.		 <b>AMERICAN MICROWAVE CORPORATION</b> FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
<i>WSP &amp; KY</i>	9/27/99	<b>PRODUCT FEATURE</b> <b>SWN-2181-TRA</b> <b>OPTION 910, LVT, NF1</b>		
ISSUED	SIZE	FSCM NO.	DWG NO.	REV.
	A	60483	100-4708-6	-
SCALE N/S		SHEET		1 of 1