

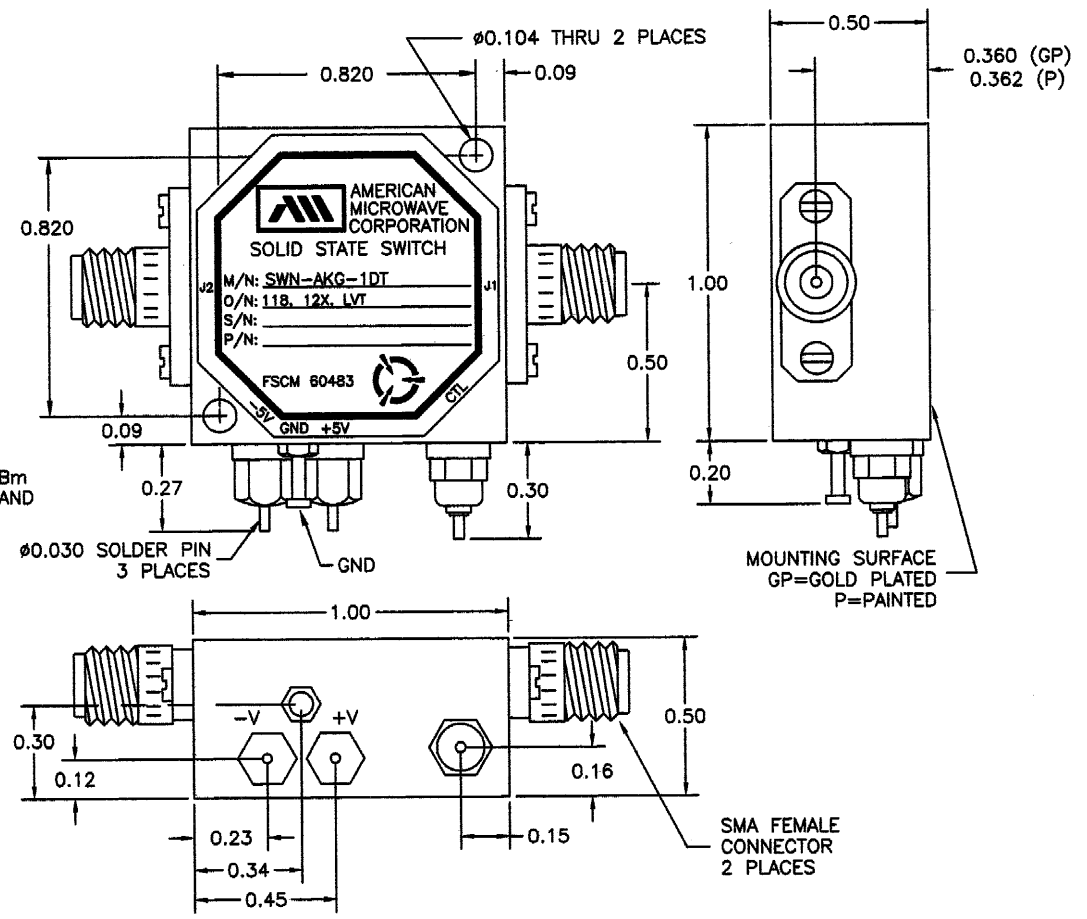
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	8/20/99	

**DESCRIPTION:**

AMC MODEL SWN-AKG-1DT OPTION 118, 12X, LVT IS A SINGLE POLE SINGLE THROW, ABSORPTIVE/NON-REFLECTIVE SWITCH MODULE WITH VERY LOW INSERTION LOSS, VERY HIGH ISOLATION AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR LOW VIDEO TRANSIENTS AND LOW HARMONIC DISTORTION OVER 1.0 TO 18.2 GHz BANDWIDTH.

**SPECIFICATIONS:**

- FREQUENCY: 1.0 GHz TO 18.2 GHz
- INSERTION LOSS: 4.0 dB MAXIMUM, 3.5 dB TYPICAL
- ISOLATION (ANY PORT): -100 dB MINIMUM
- VSWR (ANY PORT, ANY STATE): 2.5:1
- SWITCHING SPEED: <30 ns (50% TTL TO 10%/90% RF)
- RISE/FALL TIME: <10 ns (10% TO 90% RF) (90% TO 10% RF)
- MAXIMUM TOGGLE RATE: >20 MHz (50% DC):
- RF CONNECTORS: SMA FEMALE
- DC POWER SUPPLY: +5V ±10% @ 100 mA MAXIMUM -5V ±10% @ 100 mA MAXIMUM
- CONTROL: TTL LOGIC "0"=ON "1"=OFF
- CONTROL INTERFACE: DC SOLDER PINS
- HARMONIC DISTORTION: ≤ 70dB @ +10 dBm I/P
- FLATNESS ACROSS BAND: ±1.5dB, ±1.0dB TYPICAL (ON STATE)
- VIDEO LEAKAGE: 100 mV PEAK TO PEAK, 20 MHz BANDWIDTH (-60 dBm TO -65 dBm LEAKAGE POWER OR ENERGY IN THE BAND OF INTEREST)
- 1 dB COMPRESSION POINT: +20 dBm
- 2 TONE 3RD ORDER INTERCEPT POINT, POUT OdBm: +35 dBm
- 2 TONE 2RD ORDER INTERCEPT POINT, POUT OdBm: +55 dBm
- 0.1 dB PASS BAND: 1.0 GHz TO 18.2 GHz
- WEIGHT: 1.5 OUNCES TYPICAL
- SIZE: 1.00 (L) X 1.00 (W) X 0.50 (H)



NOTE:  
DT=WITH DRIVER, NON-REFLECTIVE/ABSORPTIVE

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: -10°C TO +55°C (OPERATING) -40°C TO +71°C (STORAGE)
- HUMIDITY: 95% OVER TEMPERATURE
- 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

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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS		DATE	AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
DRAWN <i>WSP</i>		8/20/99	TITLE OUTLINE DRAWING SWN-AKG-1DT OPTION 118, 12X, LVT	
CHECKED			SIZE	REV.
ISSUED			A	60483
			DWG NO.	100-4876-4
			SCALE	N/S
			SHEET	1 of 2