

**DESCRIPTION:**

AMC MODEL SWM-DJV-1DT-2ATT IS A SINGLE POLE SINGLE THROW, NON-REFLECTIVE/ABSORPTIVE SWITCH MODULE WITH VERY LOW VIDEO TRANSIENT, ULTRA HIGH SPEED, HIGH ISOLATION, AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR DC TO 20 GHz OPERATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL JOB# 903037E-1	07/07/00	
	A	SEE ECN #04-075	5/17/04	

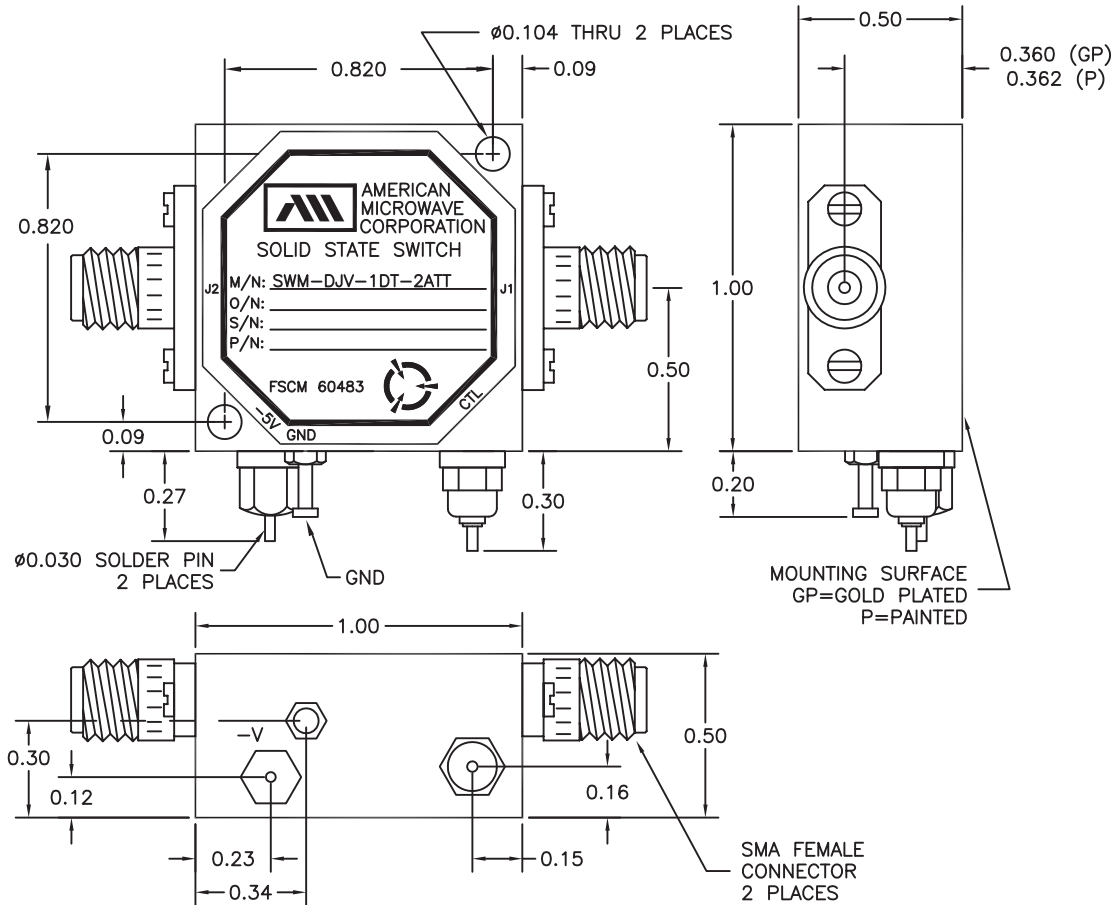
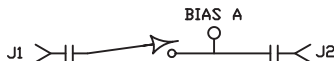
**SPECIFICATIONS:**

- FREQUENCY: DC TO 20 GHz
- INSERTION LOSS: ABSORPTIVE: 4.5dB
- ISOLATION: DC TO 12 GHz: 60db  
12 GHz TO 20 GHz: 70db
- VSWR: ABSORPTIVE IN/OUT: 2.0:1  
ABSORPTIVE OUT/OFF: 2.0:1
- SPEED: RISE: 1ns TYPICAL, 2ns MAX.  
FALL: 1ns TYPICAL, 2ns MAX.  
DELAY ON: 12ns TYPICAL, 15ns MAX.  
DELAY OFF: 12ns TYPICAL, 15ns MAX.
- VIDEO TRANSIENT: 20mV P-P @ 300MHz BANDWIDTH(2-20 GHz)  
4mV P-P @ 20MHz BANDWIDTH(2-20 GHz)  
150mV P-P @ 300MHz BANDWIDTH(DC-20 GHz)  
50mV P-P @ 20MHz BANDWIDTH(DC-20 GHz)
- POWER INPUT: (CW)+20dBm (STANDARD),
- SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: TTL LOGIC "0"=ON "1"=OFF
- POWER SUPPLY: -5V @ 25 mA MAX.

**AVAILABLE OPTIONS:**

- B03: REVERSE LOGIC "1" = ON
- 007: REVERSE LOGIC "1" = ON
- 10812: 1.8 - 12GHz FREQUENCY RANGE

**BLOCK DIAGRAM**



M/N = MANUFACTURER PART NUMBER  
 O/N = OPTION NUMBER  
 S/N = SERIAL NUMBER  
 P/N = PART NUMBER

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

**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

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

APPROVALS		DATE	AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
DRAWN <i>WSP &amp; RRA</i>		08/07/00	TITLE PRODUCT FEATURE SWM-DJV-1DT-2ATT	
REDRAWN <i>JDJ</i>		8/17/04	DC TO 20 GHz SINGLE POLE SINGLE THROW SWITCH	
CHECKED			SIZE A	FSCM NO. 60483
ISSUED			DWG NO. 100-5653	REV. A
SCALE N/S			SHEET 1 of 3	

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION