DESCRIPTION:

AMC MODEL SWN-2184-1DR/DT IS A SINGLE POLE SINGLE THROW, REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SWITCH MODULE WITH LOW INSERTION LOSS, HIGH ISOLATION, HIGH SPEED AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 0.5 GHz TO 18 GHz OPERATION.

SPECIFICATIONS:

- FREQUENCY: ..... 0.5 GHz TO 18 GHz
- INSERTION LOSS: ..... REFLECTIVE: 2.5db
ABSORPTIVE: 3.5db
- ISOLATION: ..... 0.5 GHz TO 18 GHz: 60db
- VSWR: ..... REFLECTIVE IN/OUT: 2.0:1
ABSORPTIVE IN/OUT: 2.0:1
ABSORPTIVE OUT/OFF: 2.0:1
- SPEED: ..... RISE: 15ns MAX.
FALL: 15ns MAX.
DELAY ON: 100ns MAX.
DELAY OFF: 100ns MAX.
- POWER INPUT: ..... (CW)+20dBm (STANDARD), +10 dBm (HIGH SPEED)
- SURVIVAL POWER: ..... 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: ..... TTL LOGIC "0"=ON "1"=OFF
- POWER SUPPLY: ..... +5V @ 70 mA MAX.
−5V @ 50 mA MAX.(RELECTIVE)
100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

OPTIONS:

B01	−12V POWER SUPPLIES
B02	−15V POWER SUPPLIES
B03	REVERSE LOGIC "1"=ON "0"=OFF
B04	DRIVERLESS, CURRENT CONTROLLED
B05	HIGH SPEED, TURNON/TURNOFF 20 nsec MAXIMUM WHEN APPLICABLE OR OPTION HS
B06	HIGH POWER − SPECIFY CW POWER, PEAK POWER, PULSE WIDTH, DUTY CYCLE, RF FREQUENCY AND BANDWIDTH
B08	LOW VIDEO TRANSIENTS − SPECIFY VIDEO BANDWIDTH
B10	HIGHER ISOLATION VERSION (SPECIFY)

ENVIRONMENTAL RATINGS:

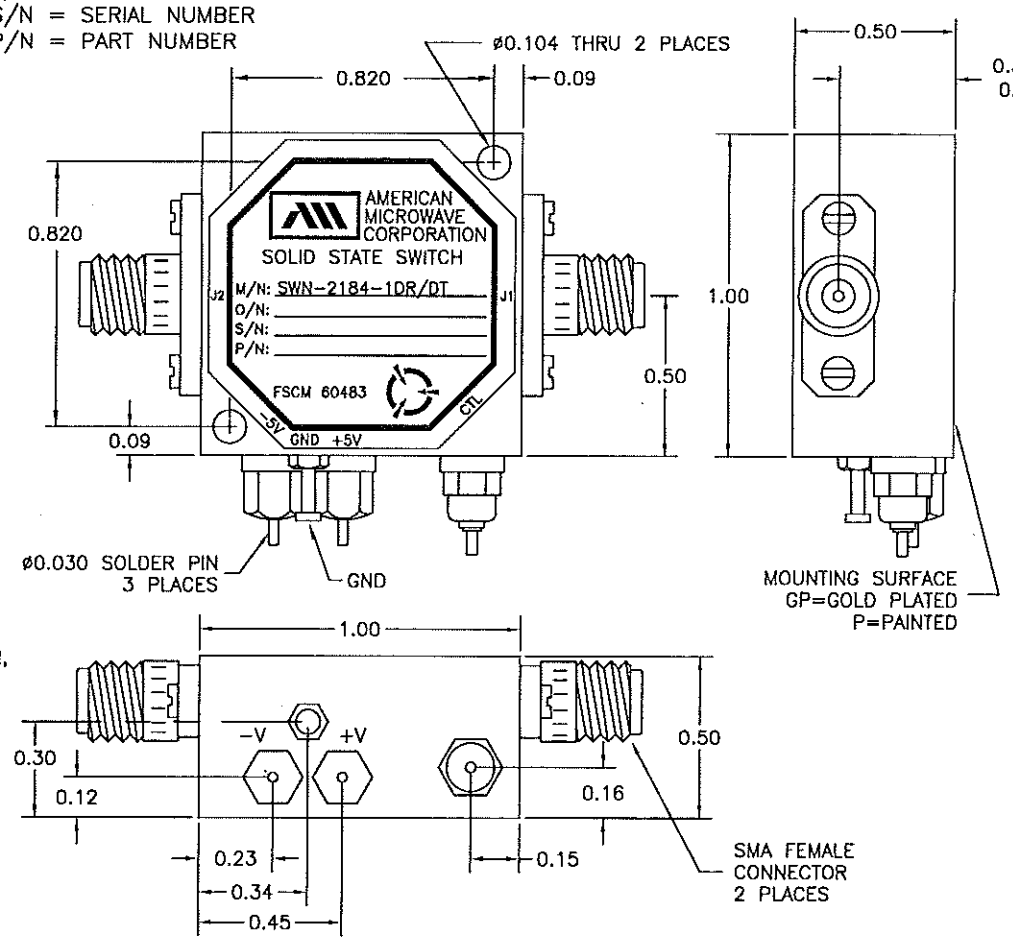
- TEMPERATURE: ..... −40°C TO +85°C (OPERATING)
−65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ... MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	−	ORIGINAL RELEASE	07/07/00	
	A	SEE ECR# 09-025	6/9/09	

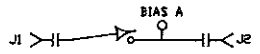
M/N = MANUFACTURER PART NUMBER
O/N = OPTION NUMBER
S/N = SERIAL NUMBER
P/N = PART NUMBER



NOTE:

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

BLOCK DIAGRAM



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

APPROVALS	DATE
DRAWN WSP & RRA	06/07/00
CHECKED	6/10/09
ISSUED	

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE
PRODUCT FEATURE
SWN-2184-1DR/DT
STANDARD ONE WAY

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-5652	A

SCALE N/S SHEET 1 of 3