

**SPECIFICATIONS:**

- **FREQUENCY:** ..... 0.5 GHz TO 18 GHz
- **INSERTION LOSS:** ..... REFLECTIVE: 3.5db  
..... ABSORPTIVE: 4.25db
- **ISOLATION:** ..... 0.5 GHz TO 2 GHz: 60db  
..... 2 GHz TO 18 GHz: 70db
- **VSWR:** ..... REFLECTIVE IN/OUT: 2.0:1  
..... ABSORPTIVE IN/OUT: 2.0:1  
..... ABSORPTIVE OUT/OFF: 2.0:1
- **SPEED:** ..... RISE: 10ns TYPICAL, 15ns MAX.  
..... FALL: 10ns TYPICAL, 15ns MAX.  
..... DELAY ON: 75ns TYPICAL, 100ns MAX.  
..... DELAY OFF: 75ns TYPICAL, 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 @ 300 mA MAX.  
..... -5V @ 75mA MAX.(REFLECTIVE)  
..... 100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

**OPTIONS:**

- INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
- DEC-MP ..... 3 BIT DECODER WITH MULTIPIN
  - DEC-SP ..... 3 BIT DECODER WITH SOLDER PIN
  - MP-IND ..... INDEPENDENT CONTROL WITH MULTIPIN
  - 10M18 ..... 10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
  - 100M18 ..... 100 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 0.5db AT 18 GHz)
  - 118 ..... 1 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
  - 218 ..... 2 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
  - 412 ..... 4 GHz TO 12.4 GHz (NO CHANGE IN INSERTION LOSS)
  - 618 ..... 6 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
  - 1218 ..... 12 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
  - 100M20 ..... 100 MHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 1.0db AT 20 GHz)
  - 220 ..... 2 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
  - 1020 ..... 10 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
  - B01 ..... -12V POWER SUPPLIES
  - B02 ..... -15V POWER SUPPLIES
  - B03 ..... REVERSE LOGIC "1"=ON "0"=OFF
  - B04 ..... DRIVERLESS, CURRENT CONTROLLED
  - B05 ..... HIGH SPEED, TURNON/TURNOFF 25 nsec MAXIMUM WHEN APPLICABLE
  - B06 ..... HIGH POWER - SPECIFY CW POWER, PEAK POWER, PULSE WIDTH, DUTY CYCLE, RF FREQUENCY AND BANDWIDTH
  - B07 ..... CUSTOM DESIGNED PRODUCT- SPECIFY INITIALS OF CUSTOMER
  - B08 ..... LOW VIDEO TRANSIENTS - SPECIFY VIDEO BANDWIDTH
  - B09 ..... LOW INSERTION LOSS VERSION
  - B10 ..... HIGHER ISOLATION VERSION
  - B11 ..... 0.5"THICK VERSION WITH REMOVABLE 4 HOLE FLANGE SMA (F)

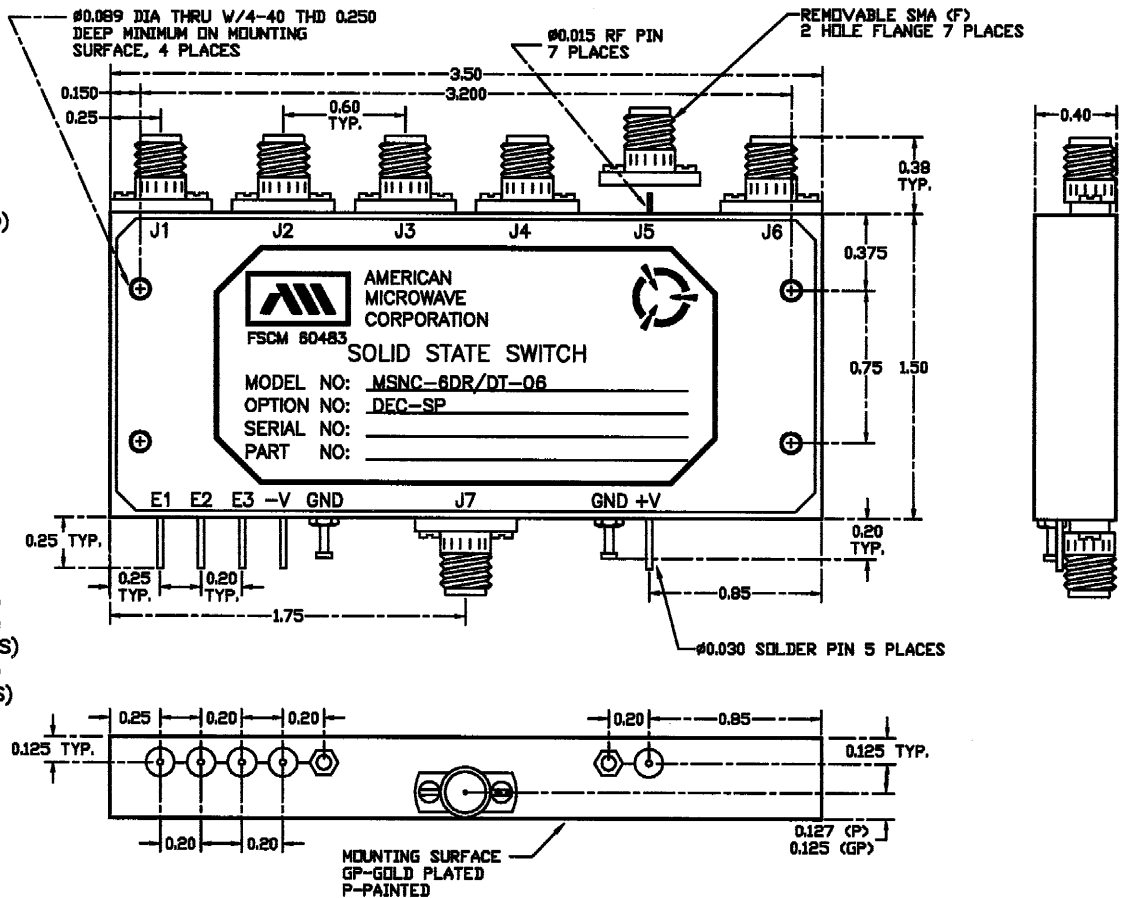
**ENVIRONMENTAL RATINGS:**

- **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

ZONE		REV.	DESCRIPTION	DATE	APPROVED
			ORIGINAL RELEASE	1/15/98	



NOTE:

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND			
APPROVALS	DATE	TITLE			
DRAWN	1/15/98	OUTLINE DRAWING MSNC-6DR/DT-06-DEC-SP REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH			
CHECKED		SIZE	FSCM NO.	DWG NO.	REV.
ISSUED		A	60483	100-4299-3	
		SCALE	N/S		SHEET 1 of 1