

**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"=DN "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

**ENVIRONMENTAL RATINGS:**

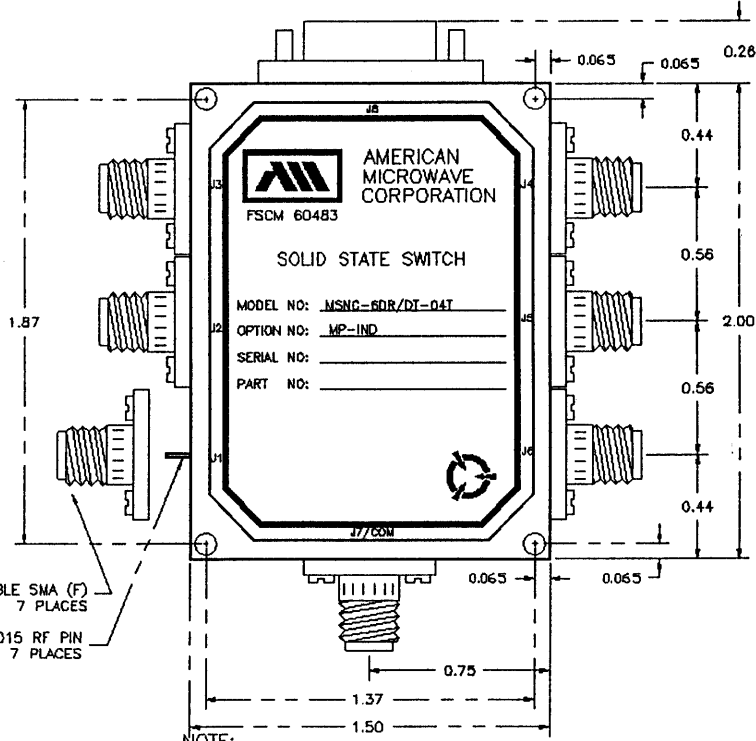
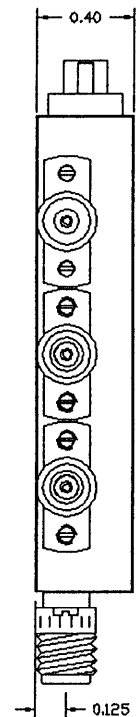
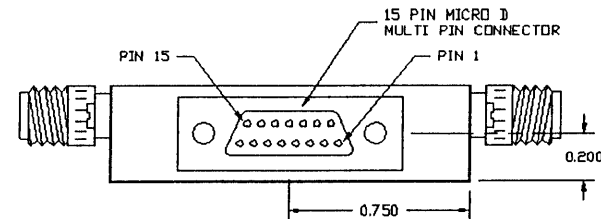
- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)  
..... -65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PIN OUT TABLE	
MP-IND	
PIN NO.	FUNCTION
1	F1
2	F2
3	F3
4	F4
5	F5
6	F6
7	N/C
8	N/C
9	N/C
10	N/C
11	N/C
12	GND
13	+V
14	-V
15	GND

N/C = NOT CONNECTED

REVISIONS			DATE	APPROVED
ZONE	REV.	DESCRIPTION		
		ORIGINAL RELEASE	1/24/98	



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

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN	1/24/98	OUTLINE DRAWING		
CHECKED	1/28/98	MSNC-6DR/DT-04T-MP-IND		
ISSUED		REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH		
SIZE	FSCM NO.	DWG NO.	REV.	
A	60483	100-4302-4		
SCALE N/S		SHEET 1 of 1		