

SPECIFICATIONS:

- **FREQUENCY:** 0.5 GHz TO 18 GHz
- **INSERTION LOSS:** REFLECTIVE: 8.0db
ABSORPTIVE: 8.5db
- **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, 150ns MAX.
DELAY OFF: 75ns TYPICAL, 150ns 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 @ 2.0 A MAX.
-5V @ 200mA MAX.(RELECTIVE)
250mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

OPTIONS:

- INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
- DEC-MP 6 BIT DECODER WITH MULTIPIN
- DEC-SP 6 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 20 nsec MAXIMUM WHEN APPLICABLE OR OPTION HS
- 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

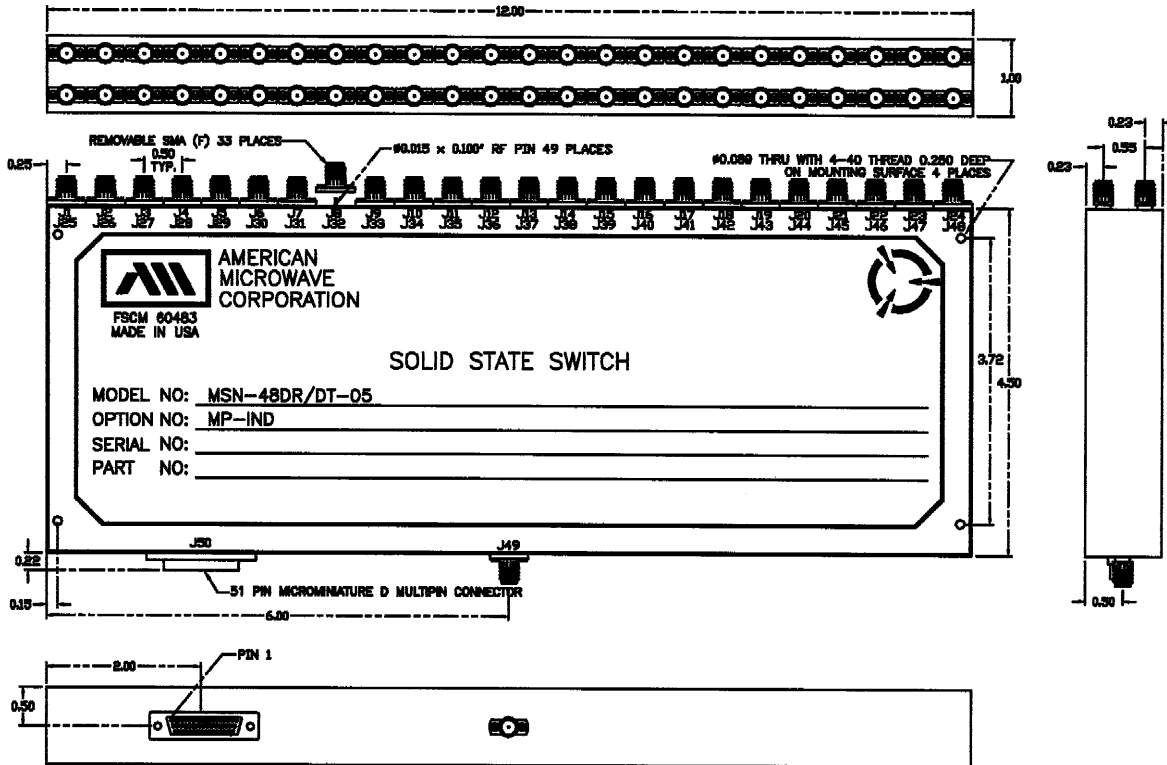
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

X.XX ±0.020
X.XXX ±0.010

PIN OUT TABLE					
PIN NO.	FUNCTION	PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	E1	14	E14	27	E27
2	E2	15	E15	28	E28
3	E3	16	E16	29	E29
4	E4	17	E17	30	E30
5	E5	18	E18	31	E31
6	E6	19	E19	32	E32
7	E7	20	E20	33	E33
8	E8	21	E21	34	E34
9	E9	22	E22	35	E35
10	E10	23	E23	36	E36
11	E11	24	E24	37	E37
12	E12	25	E25	38	E38
13	E13	26	E26	39	E39
				40	E40
				41	E41
				42	E42
				43	E43
				44	E44
				45	E45
				46	E46
				47	E47
				48	E48
				49	+V
				50	-V
				51	GND

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	9/9/98	



NOTE:

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>WSP</i>	9/9/98	OUTLINE DRAWING MSN-48DR/DT-05-MP-IND REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH		
CHECKED		SIZE	PSCM NO.	DWG NO.
ISSUED		A	60483	100-4509-2
		SCALE	N/S	SHEET 1 of 1