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

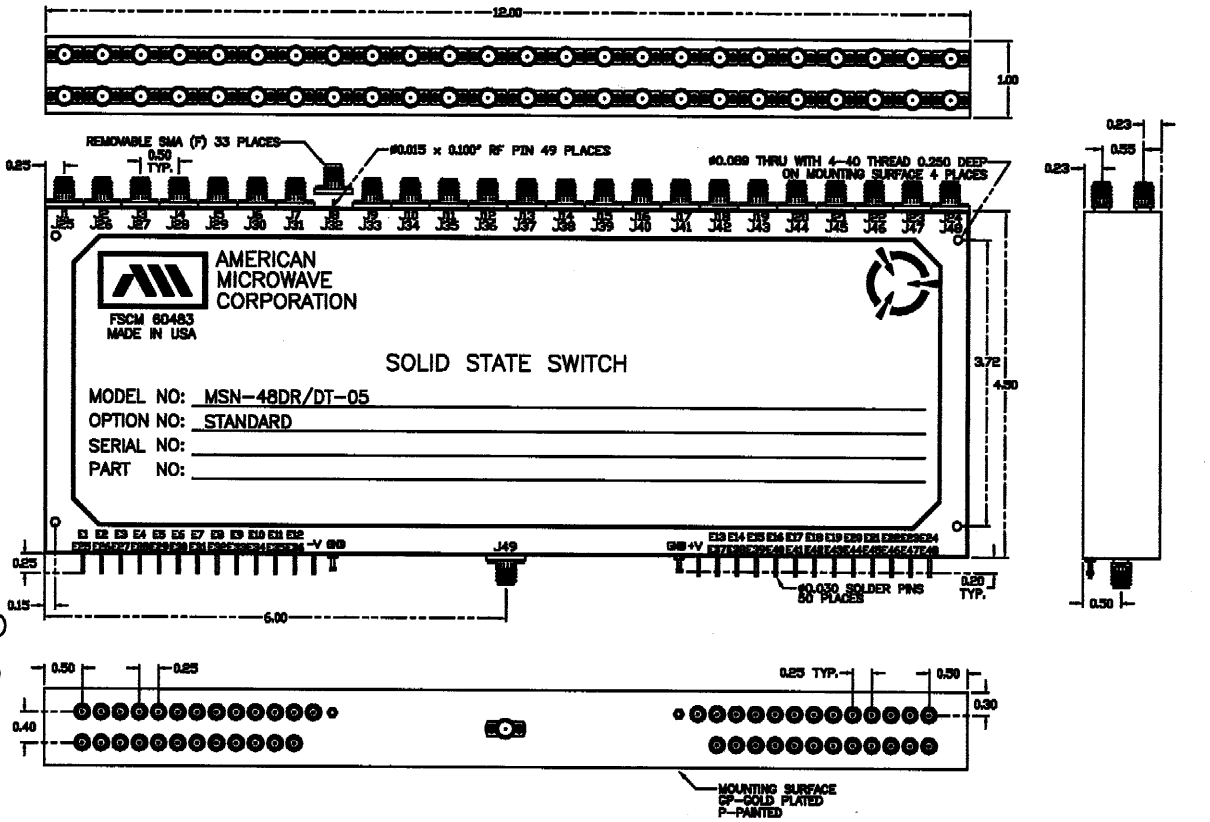
DEC−MP ..... 6 BIT DECODER WITH MULTIPIN
DEC−SP ..... 6 BIT DECODER WITH SOLDER PIN
MP−IND ..... INDEPENDENT CONTROL WITH MULTIPIN
10M18 ..... 10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
100M18 ..... 100 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	−	ORIGINAL RELEASE	9/3/98	



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.		
APPROVALS	DATE	
DRAWN WSP	9/3/98	
CHECKED		
ISSUED		

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE
OUTLINE DRAWING
MSN−48DR/DT−05−STANDARD
REFLECTIVE OR NON−REFLECTIVE/ABSORPTIVE
SOLID STATE SWITCH

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100−4509−1	−

SCALE N/S SHEET 1 of 1