

DESCRIPTION:

AMC MODEL MSN-10DR/DT-05-DEC-SP IS A SINGLE POLE TEN THROW, REFLECTIVE OR ABSORPTIVE/NON-REFLECTIVE SWITCH MODULE WITH LOW INSERTION LOSS, HIGH ISOLATION AND INTEGRAL TTL DRIVER, DESIGNED FOR 500 MHZ TO 18 GHZ FREQUENCY RANGE.

SPECIFICATIONS:

- FREQUENCY: 0.5 GHZ TO 18 GHZ
- INSERTION LOSS: REFLECTIVE: 4.5db
 ABSORPTIVE: 5.0db
- 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 MAXIMUM
 FALL: 10ns TYPICAL, 15ns MAXIMUM
 DELAY ON: 75ns TYPICAL, 100ns MAXIMUM
 DELAY OFF: 75ns TYPICAL, 100ns MAXIMUM
- 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 @ 500 mA MAXIMUM
 -5V @ 75 mA MAXIMUM (REFLECTIVE)
 100 mA MAXIMUM (ABSORPTIVE/NON-REFLECTIVE)
- SIZE: 5.00" x 1.50" x 0.40"
- WEIGHT: 5.50 OUNCES

OPTIONS:

- INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
- DEC-MP: 4 BIT DECODER WITH MULTIPIN
- DEC-SP: 4 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)
- 818: 8 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

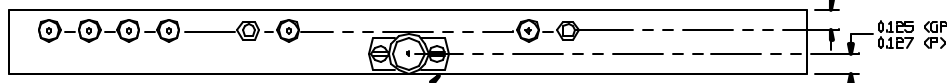
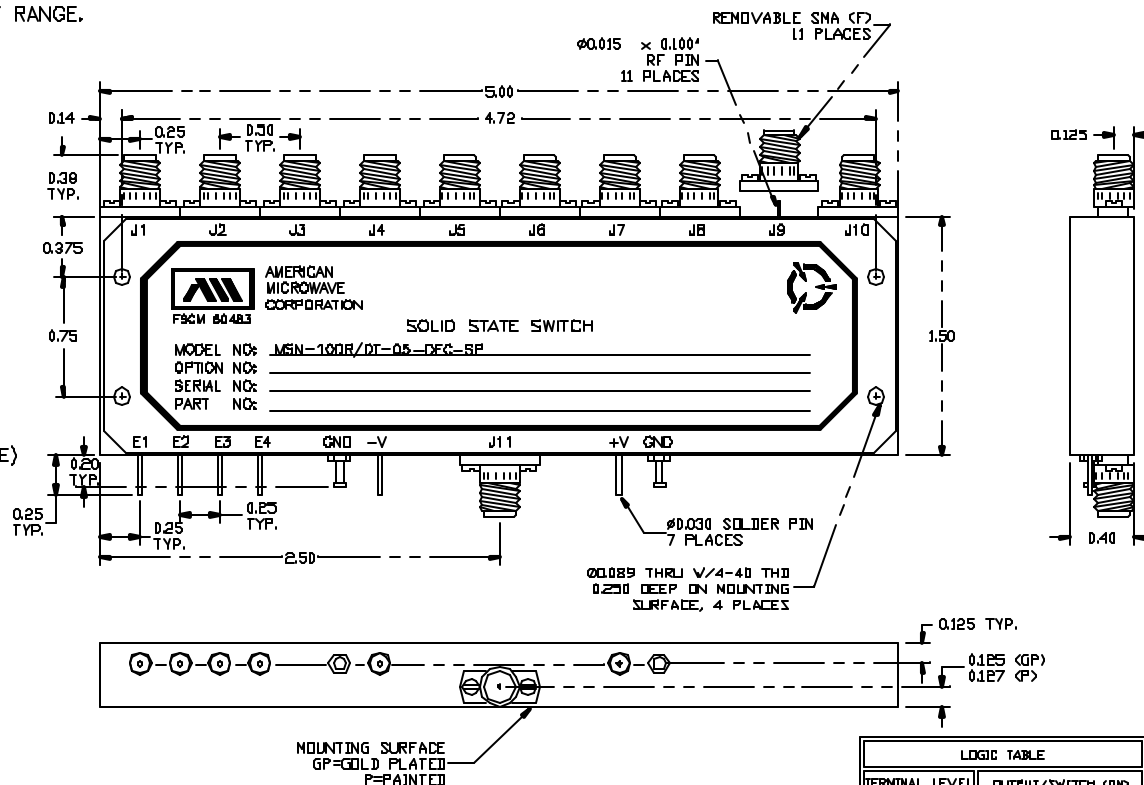
ENVIRONMENTAL RATINGS:

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	7/7/89	



TERMINAL LEVEL	OUTPUT/SWITCH COND
E1 E2 E3 E4	RF
L L L L	J1
H L L L	J2
L H L L	J3
H H L L	J4
L L H L	J5
H L H L	J6
L H H L	J7
H H H L	J8
L L L H	J9
H L L H	J10

LOGIC L = LOW (0)
 LOGIC H = HIGH (1)

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE OUTLINE DRAWING MSN-10DR/DT-05-DEC-SP REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH	
DRAWN WSP	7/7/89	SIZE A	REV. -
CHECKED		FRGM NO. 60483	DWG NO. 100-4107-3
ISSUED		SCALE	SHEET 1 of 1