

DESCRIPTION:

AMC MODEL MSN-10DR/DT-05-DEC-MP 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.

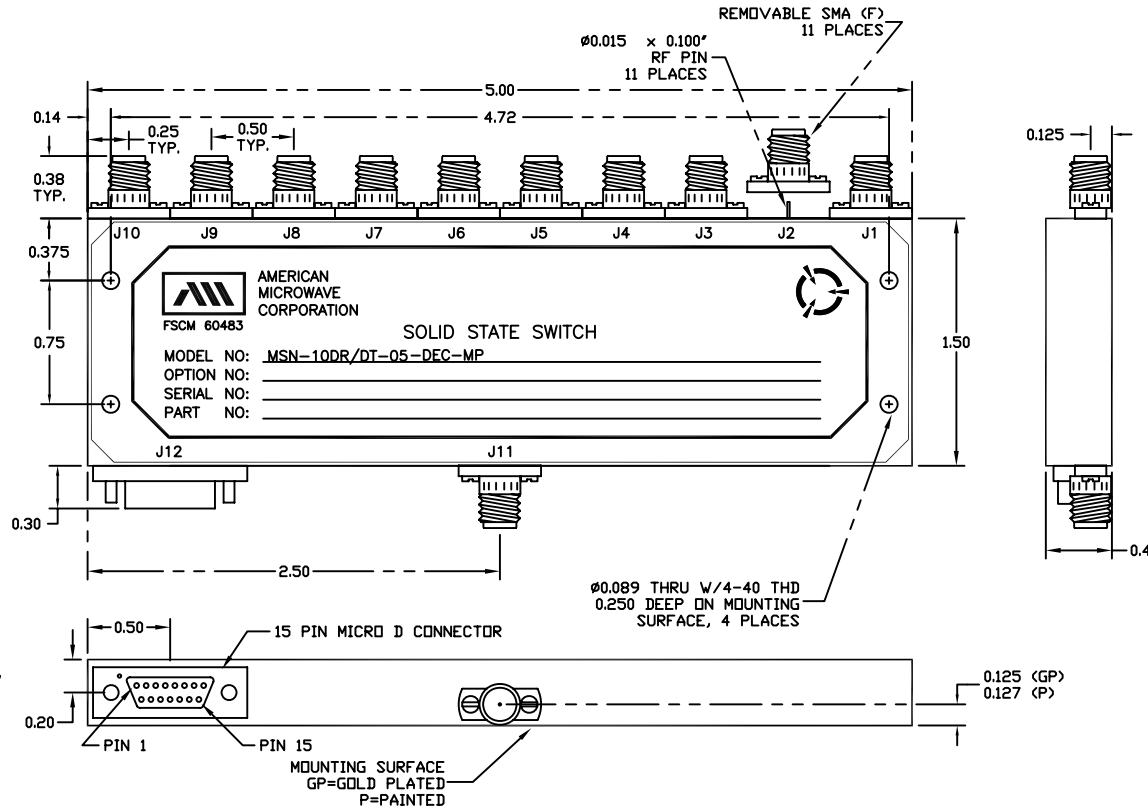
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	7/7/99	
A		ECR # 10-010	3/2/10	Rd
B		ECR # 10-018	4/28/10	Rd

SPECIFICATIONS:

- FREQUENCY: 0.5 GHz TO 18 GHz
- INSERTION LOSS: REFLECTIVE: 4.5db
..... ABSORPTIVE: 5.0db
- ISOLATION: 0.5 GHz TO 18 GHz: 60dB
- VSWR: REFLECTIVE IN/OUT: 2.0:1
..... ABSORPTIVE IN/OUT: 2.0:1
..... ABSORPTIVE OUT/OFF: 2.0:1
- SPEED: RISE: 75ns MAXIMUM
..... FALL: 75ns MAXIMUM
..... DELAY ON: 150ns MAXIMUM
..... DELAY OFF: 150ns MAXIMUM
- POWER INPUT: (CW)+20dBm (STANDARD), +10 dBm (HIGH SPEED)
- SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: SEE LOGIC TABLE
- 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:

- DEC-MP 4 BIT DECODER WITH MULTIPIN
- DEC-SP 4 BIT DECODER WITH SOLDER PIN
- MP-IND INDEPENDENT CONTROL WITH MULTIPIN
- B01 -12V POWER SUPPLIES
- B02 -15V POWER SUPPLIES
- B03 REVERSE LOGIC "1"=ON "0"=OFF
- 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
- B08 LOW VIDEO TRANSIENTS - SPECIFY VIDEO BANDWIDTH
- B10 HIGHER ISOLATION VERSION



ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°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
* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

LOGIC TABLE				
TERMINAL LEVEL				OUTPUT/SWITCH (ON)
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
L	L	L	H	J6
H	L	L	H	J7
L	H	L	H	J8
H	H	L	H	J9
L	L	H	H	J10

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

PIN OUT TABLE	
DEC-MP	
PIN NO.	FUNCTION
1	E1
2	E2
3	E3
4	E4
5	N/C
6	N/C
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

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 <i>WYP</i>	7/7/99	OUTLINE DRAWING MSN-10DR/DT-05-DEC-MP REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH	
ENG <i>RRA</i>	3/2/10	SIZE	FSCM NO.
QAU <i>RRA</i>	3/2/10	A	60483
		DWG NO.	REV.
		100-4107-2	B
SCALE			SHEET 1 of 1