

SPECIFICATIONS:

- **FREQUENCY:** 0.5 GHz TO 18 GHz
- **INSERTION LOSS:** REFLECTIVE: 5,0db
ABSORPTIVE: 5,5db
- **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 @ 600 mA MAX.
-5V @ 150mA MAX.(RELECTIVE)
200mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

OPTIONS:

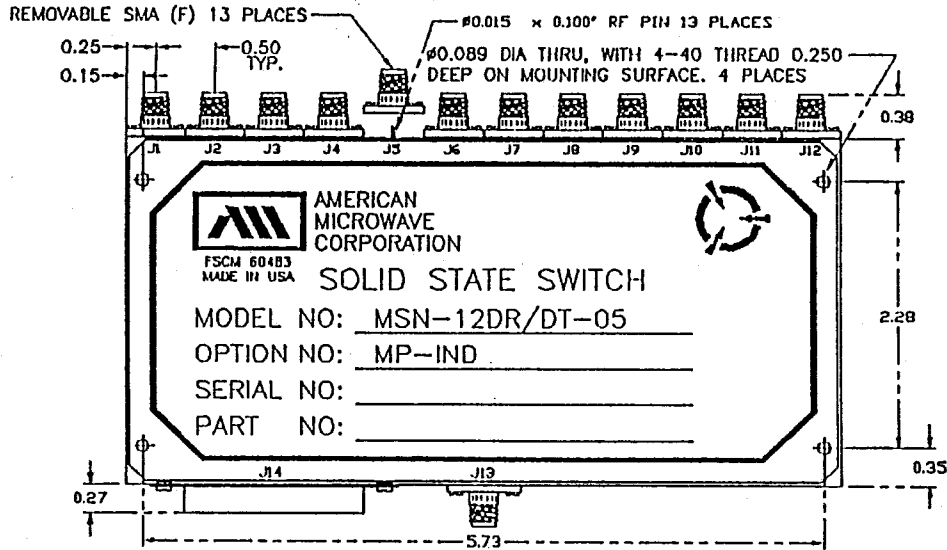
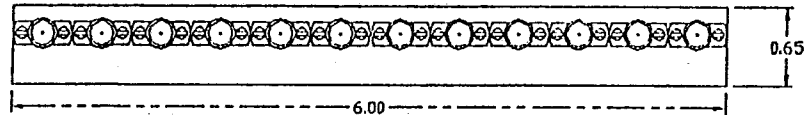
- INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
- DEC-MP 5 BIT DECODER WITH MULTIPIN
 - DEC-SP 5 BIT DECODER WITH SOLDER PIN
 - MP-IND INDEPENDENT CONTROL WITH MULTIPIN
 - 10M18 10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
 - 100M18 100 MHz TO 18 GHz (INSERTION LOSS 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 25 nsec MAXIMUM WHEN APPLICABLE
 - B08 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:

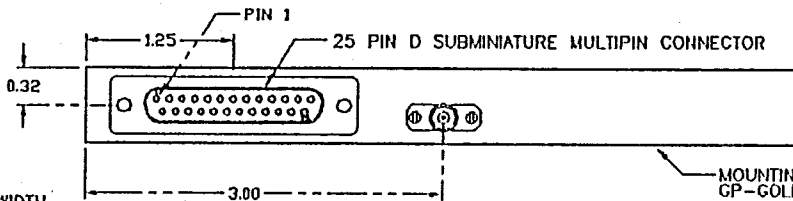
- **TEMPERATURE:** -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- **HUMIDITY:** MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:** MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:** MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:** MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:** MIL-STD-202F,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

PIN OUT TABLE			
PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	E1	13	H/C
2	E2	14	H/O
3	E3	15	H/C
4	E4	16	H/C
5	E5	17	H/C
6	E6	18	H/C
7	E7	19	H/C
8	E8	20	H/C
9	E9	21	H/C
10	E10	22	CRD
11	E11	23	+V
12	E12	24	-V
		25	CRD

REVISIONS			
DATE	REV.	DESCRIPTION	APPROVED
2/20/97	A	ORIGINAL RELEASE	



AMERICAN MICROWAVE CORPORATION
FSCM 60483 MADE IN USA
SOLID STATE SWITCH
MODEL NO: MSN-12DR/DT-05
OPTION NO: MP-IND
SERIAL NO: _____
PART NO: _____



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 OUTLINE DRAWING MSN-12DR/DT-05-MP-IND REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH	
DRWN <i>[Signature]</i>	2/20/97	SIZE A	FSCM NO. 60483
CHKD <i>[Signature]</i>	2/26/97	DWG NO.	100-4161-2
SKED		REV.	A
SCALE N/S		SHEET 1 of 1	

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NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION