

**SPECIFICATIONS:**

- FREQUENCY: ..... 0.5 GHz TO 18 GHz
- INSERTION LOSS: ..... REFLECTIVE: 3.0db  
ABSORPTIVE: 3.75db
- 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, 100ns MAX.  
DELAY OFF: 75ns TYPICAL, 100ns 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 @ 200 mA MAX.  
-5V @ 75mA MAX.(REFLECTIVE)  
100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

**OPTIONS:**

- INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
- DEC-SP ..... 2 BIT DECODER WITH SOLDER PIN
- 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 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
- B11 ..... 0.40" THICK VERSION

**ENVIRONMENTAL RATINGS:**

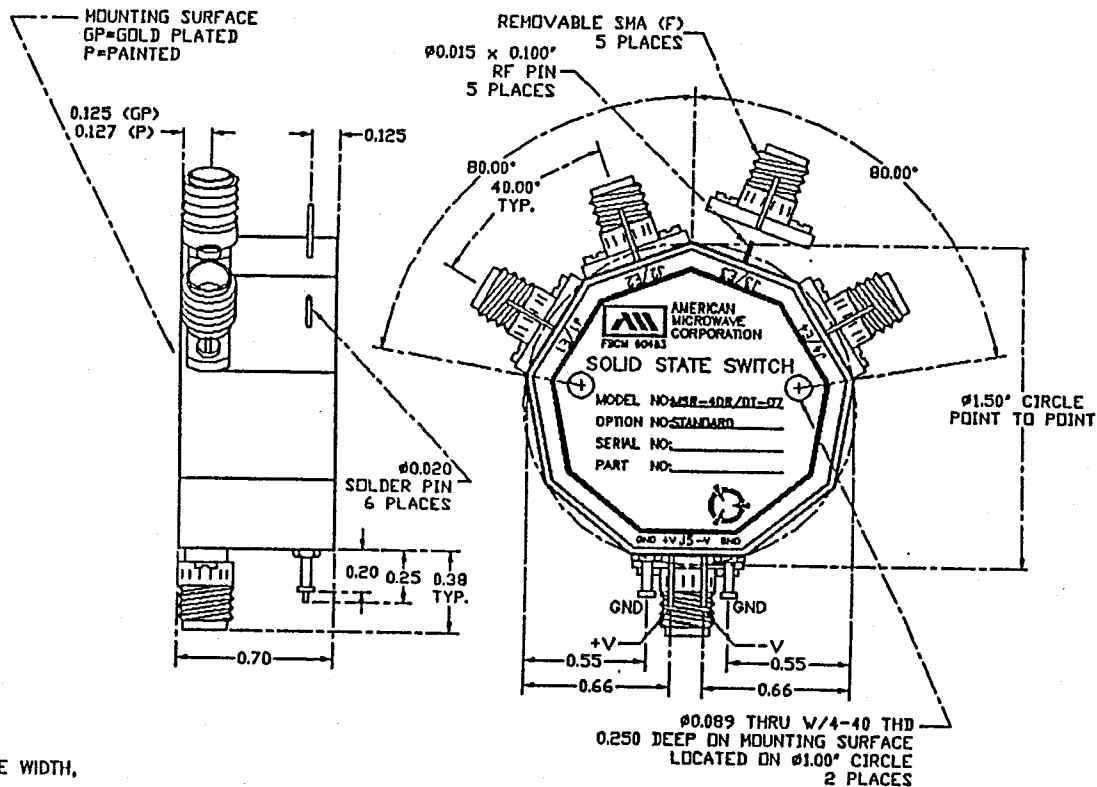
- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ..... 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
	A	ORIGINAL RELEASE	8/13/97	



NOTE:

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN	8/13/97	OUTLINE DRAWING	
CHECKED	11/7/97	MSR-4DR/DT-07-STANDARD	
ISSUED		REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE	
SIZE	F0CM NO.	DWG NO.	REV.
A	60483	100-4193-1	A
SCALE N/S		SHEET 1 of 1	