

**SPECIFICATIONS:**

- FREQUENCY: 0.5 GHz TO 18 GHz
- INSERTION LOSS: REFLECTIVE: 7.0db  
ABSORPTIVE: 7.5db
- 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 @ 1 AMP MAX.  
-5V @ 200mA MAX.(RELECTIVE)  
250mA 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)
  - 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

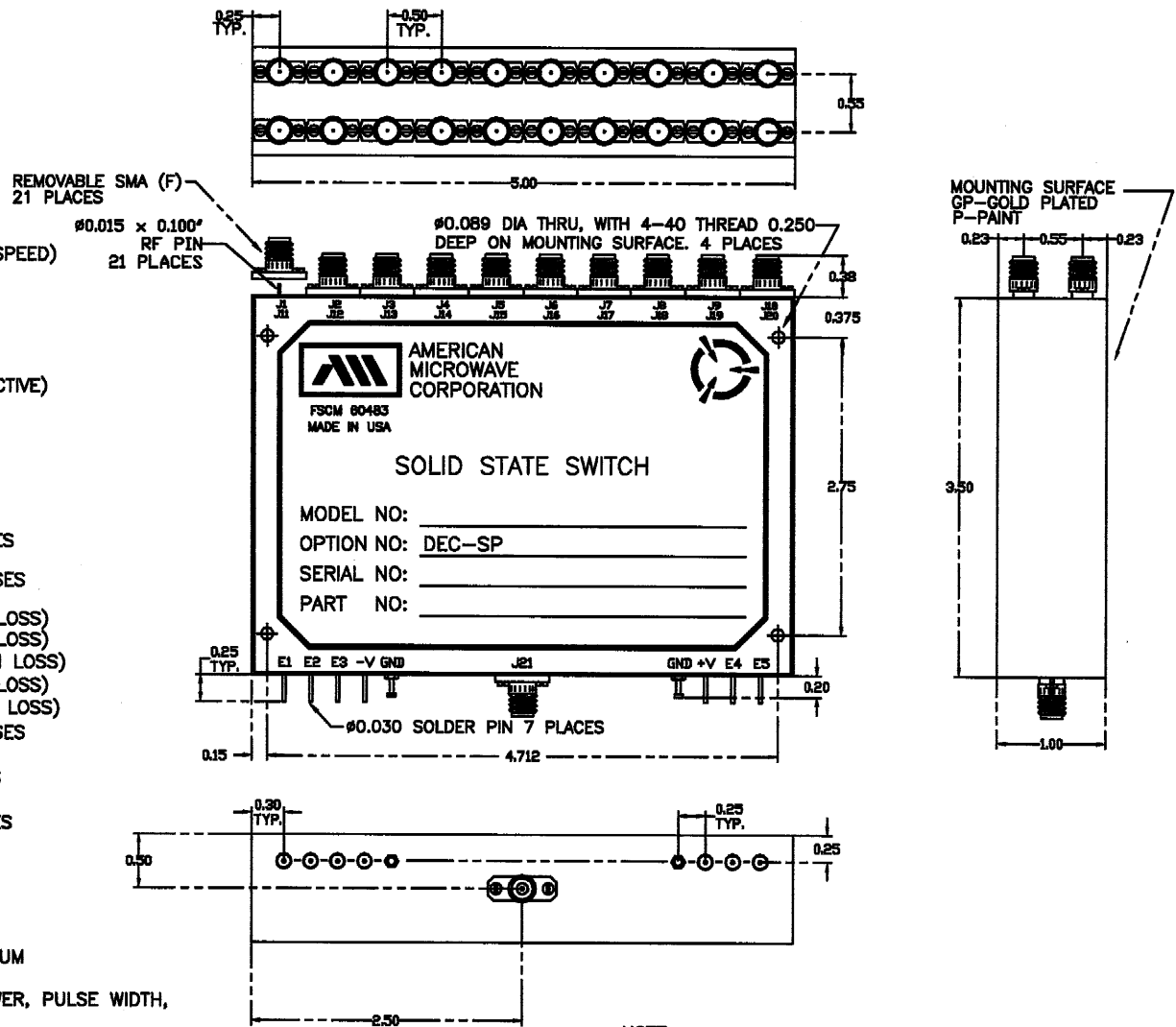
**ENVIRONMENTAL RATINGS:**

- 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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

REVISIONS			DATE	APPROVED
ZONE	REV.	DESCRIPTION		
-	-	ORIGINAL RELEASE	7/25/98	



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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN WSP	7/25/98	OUTLINE DRAWING MSNC-20DR/DT-05-DEC-SP REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		A	60483	100-4460-4
		SCALE	N/S	SHEET 1 of 1