

**DESCRIPTION:**

AMC MODEL NO.: MSN-8DT-06-STANDARD OPTION 14, HPR23DBM IS A SP8T ABSORPTIVE/NON-REFLECTIVE PIN DIODE SWITCH DESIGNED TO OPERATE FROM 1-4 GHz FREQUENCY RANGE.

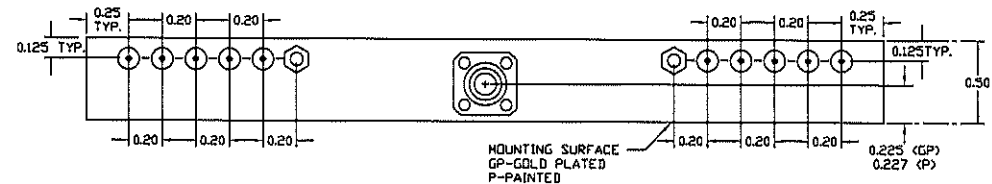
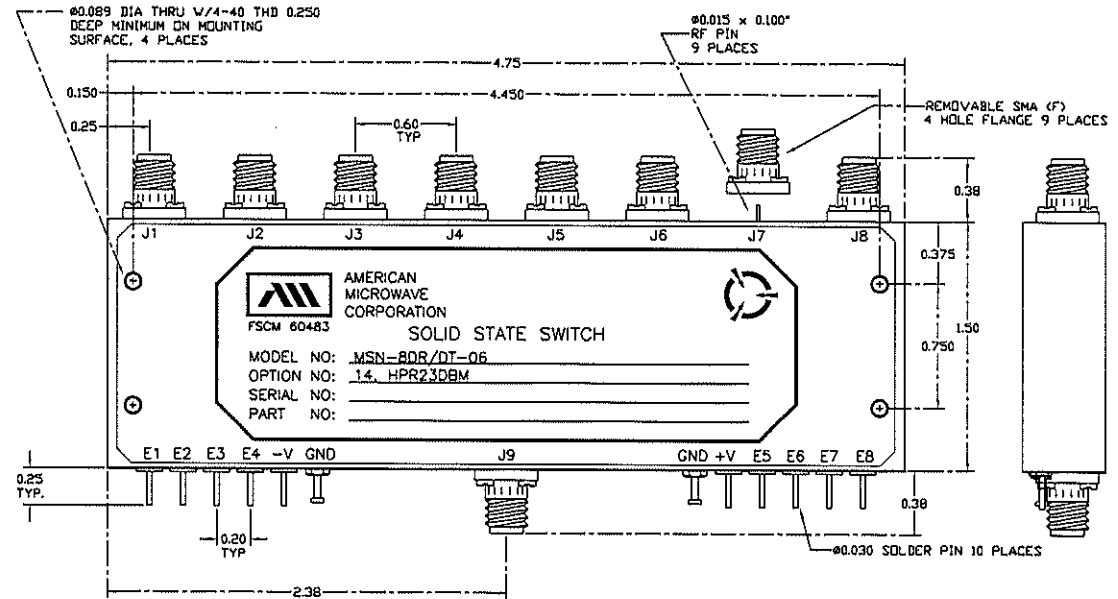
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	05/30/07	

**SPECIFICATIONS:**

- FREQUENCY: 1 - 4 GHz
- INSERTION LOSS: ABSORPTIVE: 4.5db
- ISOLATION: 1 - 2 GHz: 60 dB  
2 - 4 GHz: 70 dB
- VSWR: 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.
- RF INPUT POWER: +23 dBm
- SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: TTL LOGIC "0"=ON "1"=OFF
- POWER SUPPLY: +5V @ 400 mA MAX.  
-5V @ 100 mA MAX.

**OPTIONS:**

- INDEPENDENT CONTROL WITH SOLDER PIN STANDARD
- 14: OPTIMIZED FOR 1-4 GHz FREQUENCY
- HPR23DBM: OPTIMIZED FOR +23 dBm RF INPUT POWER



**NOTE:**

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

**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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:

X.XX ±0.020  
X.XXX ±0.010

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>WJL</i>	05/30/07	OUTLINE DRAWING MSN-8DT-06-STANDARD OPTIONS 14, HPR23DBM SOLID STATE SWITCH		
CHECKED <i>JA</i>	5/24/07	SIZE	FSCM NO.	OWG NO.
ISSUED		A	60483	100-M008-000
		SCALE	SHEET 1 of 1	
				REV. -