

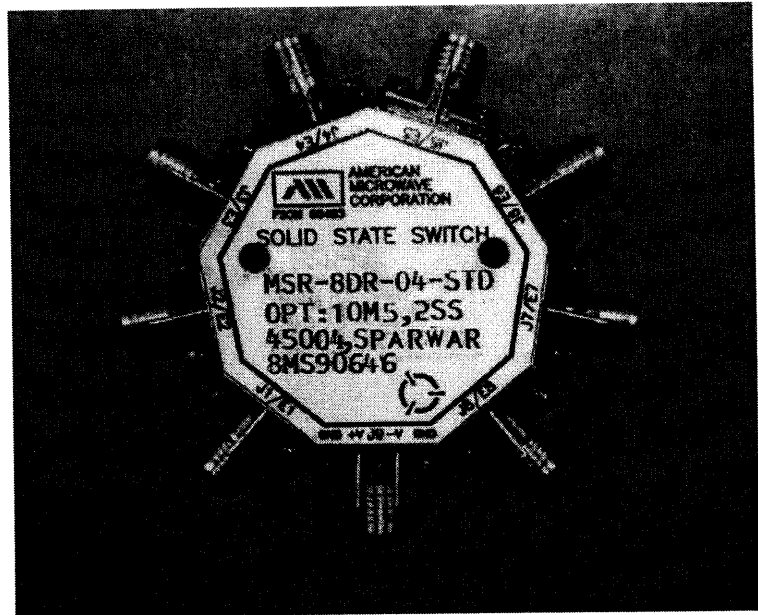


AMERICAN MICROWAVE CORPORATION

## SP8T REFLECTIVE RADIAL SOLID STATE PIN DIODE SWITCH

### KEY FEATURES

- 10 MHz TO 5 GHz  
(10MHz to 18GHz optional)
- SLIMLINE
- LOW INSERTION LOSS
- MINIATURE
- TTL LOGIC COMPATIBLE



### AMC MODEL No: MSR-8DR-04-STANDARD OPTIONS 10M5, SPARWAR, 2SS, 45004

#### SPECIFICATIONS: (NON-REFLECTIVE)

• FREQUENCY RANGE	:	10 MHz to 5 GHz (10MHz to 18GHz Optional)
• INSERTION LOSS	:	2.75 dB MAX.
	:	1.00 dB TYP. @ 10 MHz
	:	0.95 dB TYP. @ 500 MHz
	:	1.35 dB TYP. @ 2.0 GHz
	:	2.75 dB TYP. @ 5.0 GHz
• ISOLATION	:	≥ 55 dB MIN.
	:	≥ 65 dB TYP. @ 10 MHz
	:	≥ 60 dB TYP. @ 500 MHz
	:	≥ 55 dB TYP. @ 2.0 GHz
	:	≥ 50 dB TYP. @ 5.0 GHz
• VSWR	:	2.0:1
• SWITCHING SPEED	:	"RISE" 50nS MAX., 25nS TYP.
	:	"FALL" 150nS MAX., 120nS TYP.
	:	"ON" 150nS MAX., 130nS TYP.
	:	"OFF" 300nS MAX., 250nS TYP.
• CONTROL	:	Independent TTL Compatible (3 Bit Decoder available)
• VIDEO TRANSIENTS	:	≤3.4 V Peak to Peak, 300 MHZ Bandwidth
	:	≤3.25 V Peak to Peak, 20 MHZ Bandwidth
• RF INPUT POWER	:	+20dBm Operating, 1 Watt Survival (Other power Levels available)
• DC POWER SUPPLY	:	+5vdc @ +25mA MAX.
(Other supply voltages available)	:	- 5vdc @ - 75mA MAX.
• SIZE	:	1.5" Dia. circle point to point X 0.40" (H)
• WEIGHT	:	≤ 2.5 oz.

SEPTEMBER 15, 1999

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## SUMMARY TEST DATA

MODEL NUMBER

: MSR-8DR-04-STANDARD

OPTIONS 10M5, SPARWAR, 2SS, 45004

SERIAL NUMBER

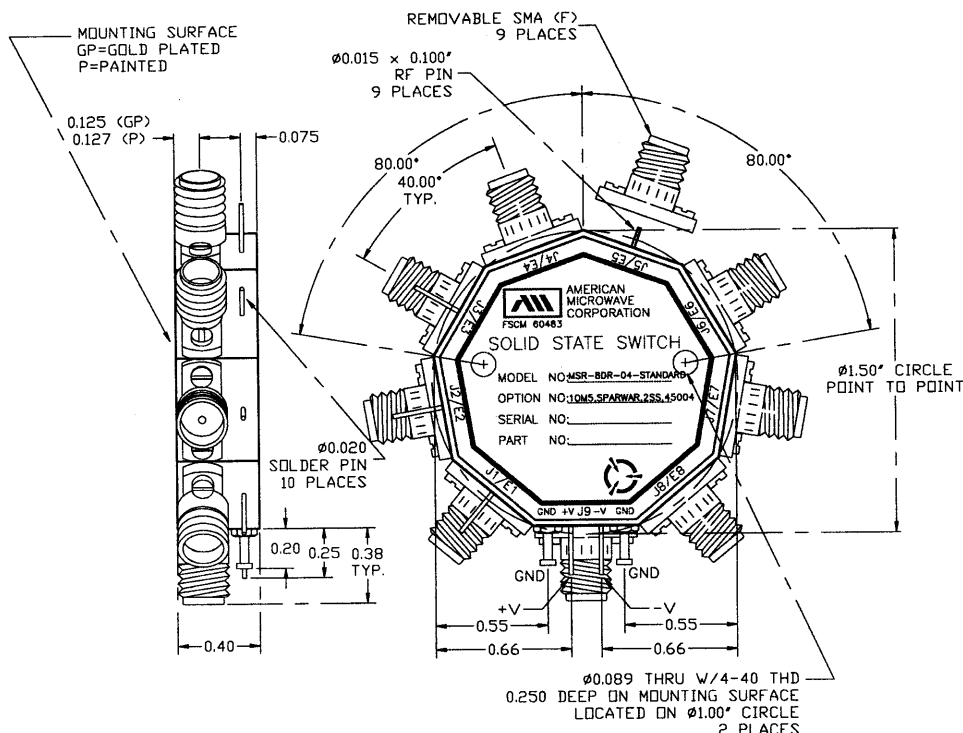
: 8MS90646

ENGINEER

: RENE AFABLE

VOLTAGE & CURRENT DRAW

: +5vdc: @ +3.9mA; -5vdc: @ -51.2mA



ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

X.XX	±0.020
X.XXX	±0.010

### 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.

SEPTEMBER 15, 1999