

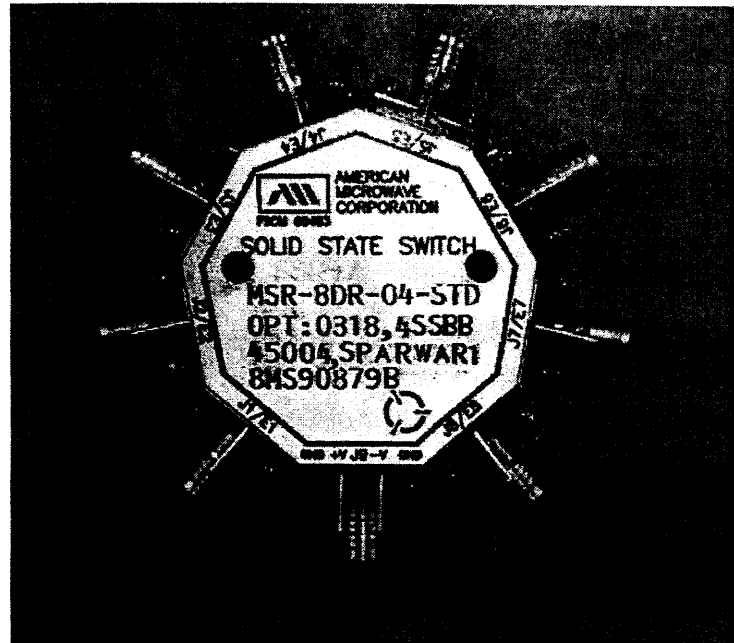


**AMERICAN MICROWAVE
CORPORATION**

SP8T REFLECTIVE RADIAL SOLID STATE SWITCH

KEY FEATURES

- 300 MHz TO 18 GHz
(10MHz to 18GHz optional)
- HIGH ISOLATION
- LOW INSERTION LOSS
- MINIATURE
- TTL LOGIC COMPATIBLE



AMC MODEL No: MSR-8DR-04-STANDARD OPTIONS 0318, SPARWAR1, 4SSBB, 45004

SPECIFICATIONS: (REFLECTIVE)

● FREQUENCY RANGE	:	200 MHz to 18 GHz (10MHz to 18GHz Optional)
● INSERTION LOSS	:	3.5 dB MAX.
	:	1.75 dB TYP. @ 300 MHz
	:	1.90 dB TYP. @ 2.0 GHz
	:	2.50 dB TYP. @ 10.0 GHz
	:	3.25 dB TYP. @ 18.0 GHz
● ISOLATION	:	≥ 70 dB MIN.
	:	≥ 100 dB TYP. @ 300 MHz
	:	≥ 90 dB TYP. @ 2.0 GHz
	:	≥ 80 dB TYP. @ 10.0 GHz
	:	≥ 70 dB TYP. @ 18.0 GHz
● VSWR	:	2.0:1
● SWITCHING SPEED	:	"RISE" 100nS MAX., 75nS TYP.
	:	"FALL" 50nS MAX., 45nS TYP.
	:	"ON" 125nS MAX., 115nS TYP.
	:	"OFF" 100nS MAX., 85nS TYP.
● CONTROL	:	Independent TTL Compatible (3 Bit Decoder available)
● VIDEO TRANSIENTS	:	≤2.0 V Peak to Peak, 300 MHZ Bandwidth
	:	≤1.20 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 27, 1999

7311 G GROVE ROAD, FREDERICK, MARYLAND 21704 • Tel. (301) 662-4700 • Fax (301) 662-4938



SUMMARY TEST DATA

MODEL NUMBER

: MSR-8DR-04-STANDARD

SERIAL NUMBER

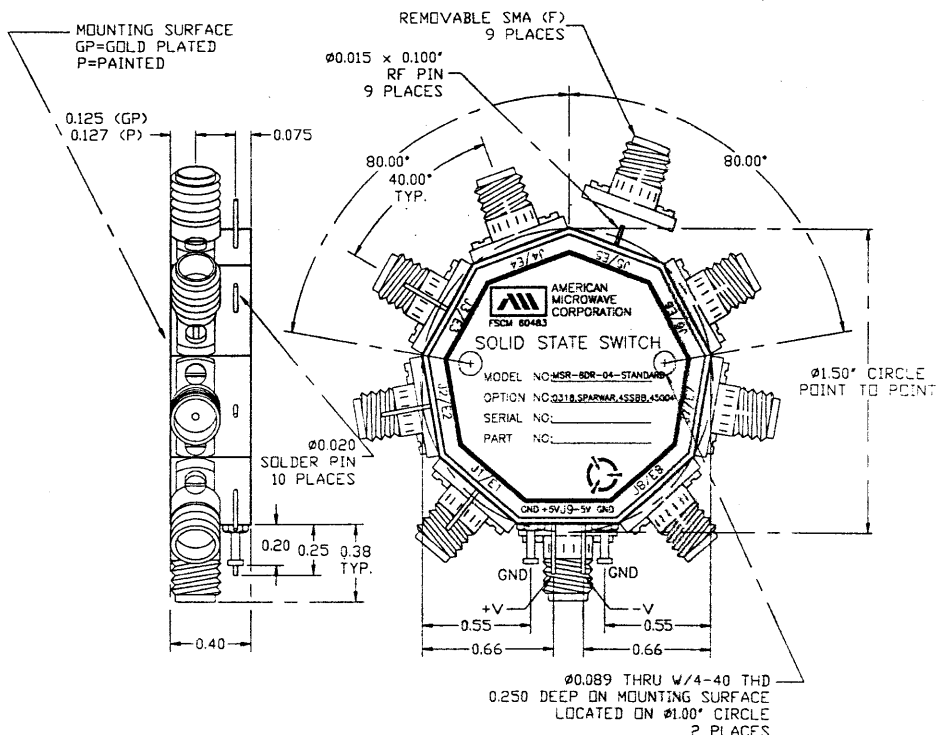
: 8MS90879B

ENGINEER

: RENE AFABLE

VOLTAGE & CURRENT DRAW

: +5vdc: @+3.4mA; -5vdc: @ -73.7mA



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 27, 1999