

DESCRIPTION

NanoMount™ is a self contained surface mountable PIN diode matrix consisting of a number of our unique patented Silicon MMSM™ PIN devices. These models offer configurations which emulate “transfer,” “diversity”, “transmit/receive”, and single pole double throw (SPDT) switching functions.

The new NanoMount technology creates a wide-bandwidth, high-power solution with outstanding isolation, insertion loss and power handling capabilities. All on easy-to-use tape and reel packaging.

IMPORTANT: For the most current data, consult MICROSEMI's website: <http://www.microsemi.com>

APPLICATIONS/BENEFITS

- 0.1 to 6.0GHz Bandwidth
- 100x100mm Footprint
- 10W Power Handling
- Many Wiring Options Possible
- Low Current Consumption
- Low Distortion Silicon MMSM PINS
- Superb Consistency vs. Flatpack Or Lead Frame Packages
- Superior Performance vs. GaAs MESFET Designs

APPLICATIONS/BENEFITS

- WLAN 5GHz to 6GHz
- SPDT Switching
- “Transfer” Switching
- “Diversity” Switching
- User Defined Functionality
- Ideal For Wide Bandwidth Applications

PRODUCT HIGHLIGHT



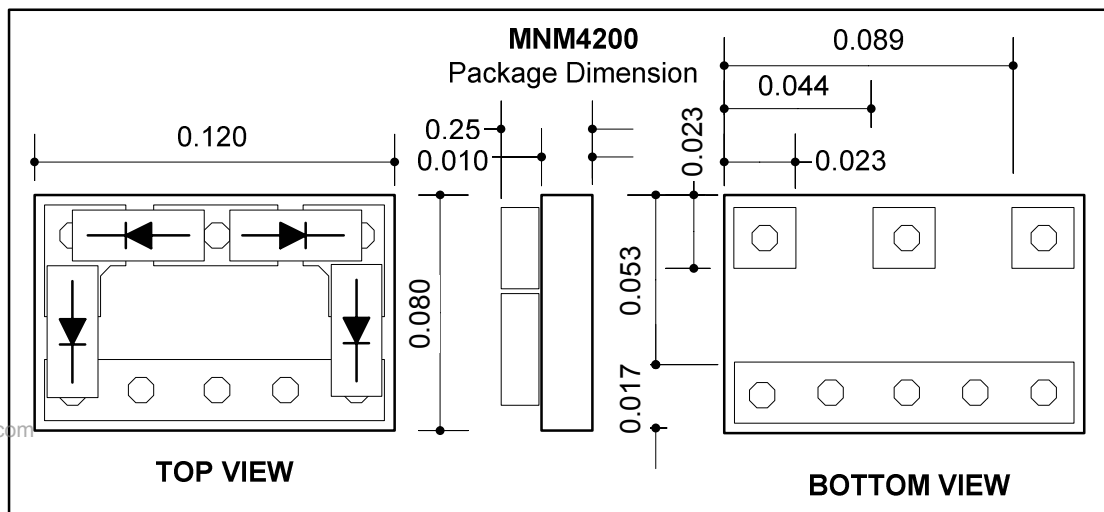
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MNM4200 SERIES / SHUNT SPDT SWITCH*

Isolation	Insertion Loss	VSWR	Power Handling
60dB @ 0.1GHz	0.3dB @ 0.1GHz	2.0:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
45dB @ 1.0GHz	0.4dB @ 1.0GHz	2.0:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
40dB @ 2.0GHz	0.5dB @ 2.0GHz	2.0:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
30dB @ 4.0GHz	0.7dB @ 4.0GHz	2.0:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
25dB @ 5.0GHz	1.0dB @ 5.0GHz	2.0:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
25dB @ 6.0GHz	1.2dB @ 6.0GHz	2.0:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power

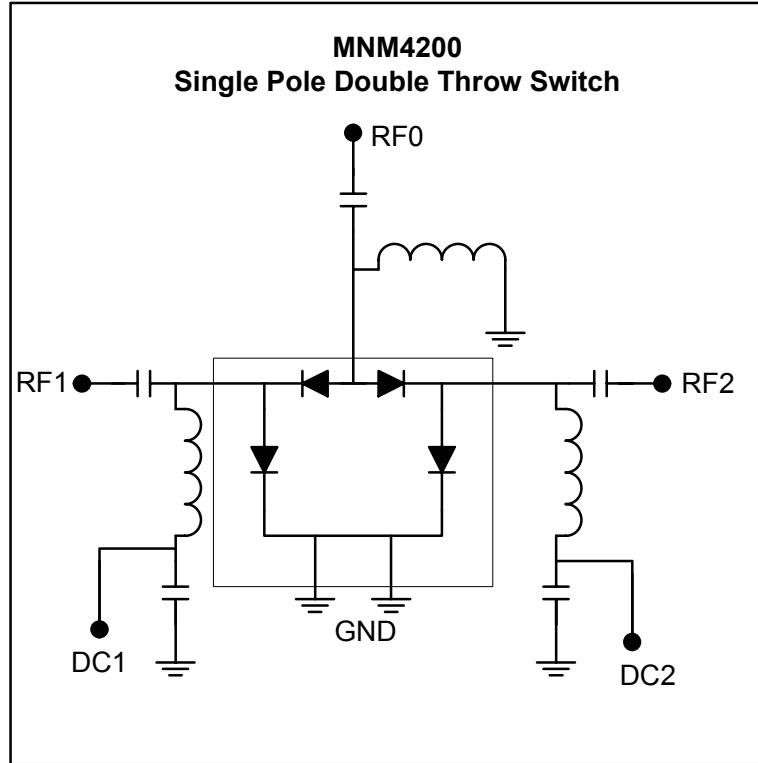
*Typical performance at 5mA

MNM4200 SERIES / PACKAGE DIMENSION



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MNM4200 SERIES: SINGLE POLE DOUBLE THROW SWITCH

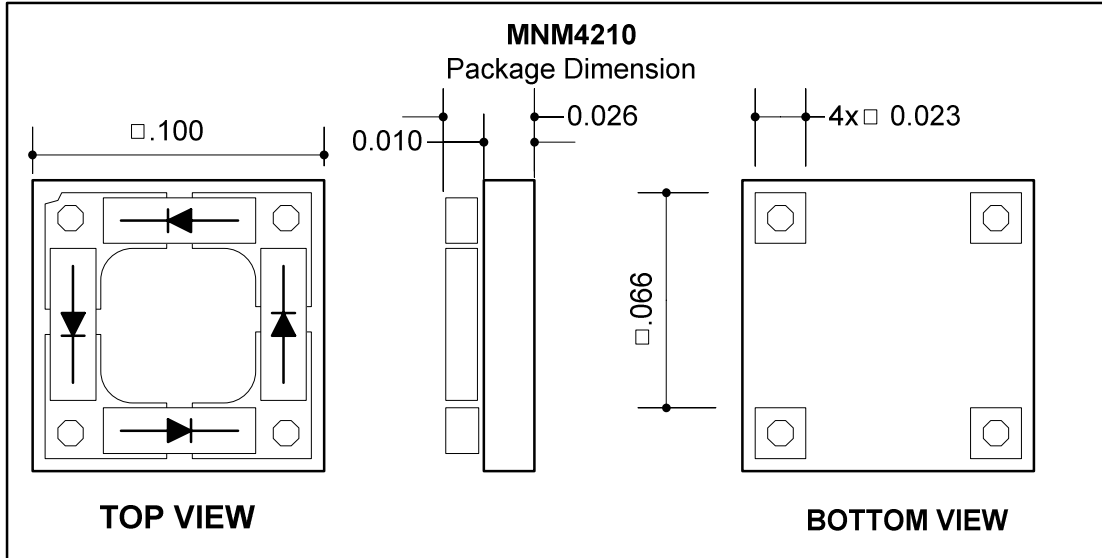


MNM4210: TRANSFER/DUAL SWITCH*

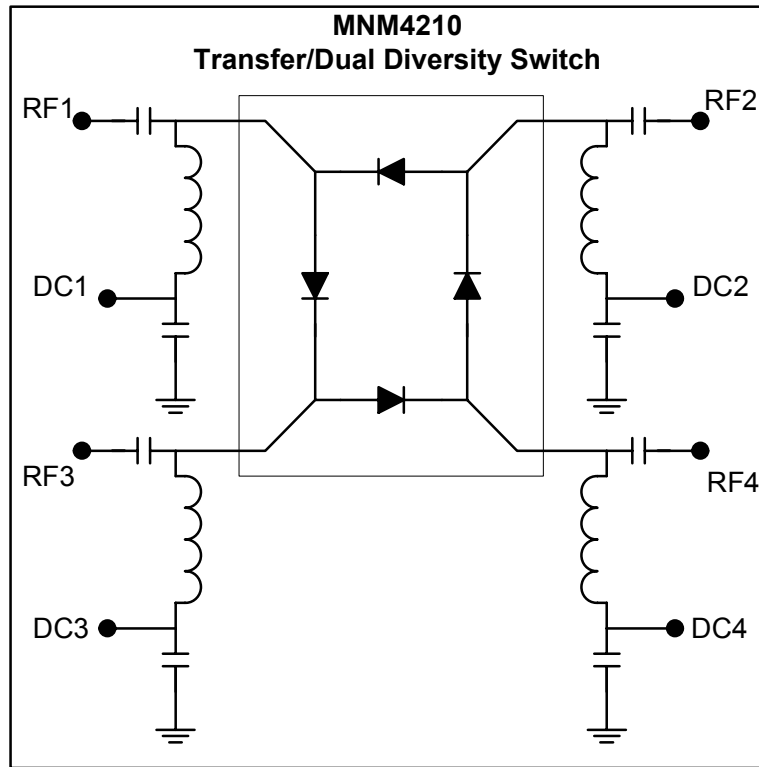
Isolation	Insertion Loss	VSWR	Power Handling
40dB @ 0.1GHz	0.2dB @ 0.1GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
30dB @ 1.0GHz	0.3dB @ 1.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
25dB @ 2.0GHz	0.3dB @ 2.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
15dB @ 4.0GHz	0.5dB @ 4.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
15dB @ 5.0GHz	0.5dB @ 5.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
15dB @ 6.0GHz	1.0dB @ 6.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power

*Typical performance at 5mA

MNM4210 SERIES / PACKAGE DIMENSION



MNM4210 SERIES: TRANSFER/DUAL SWITCH*



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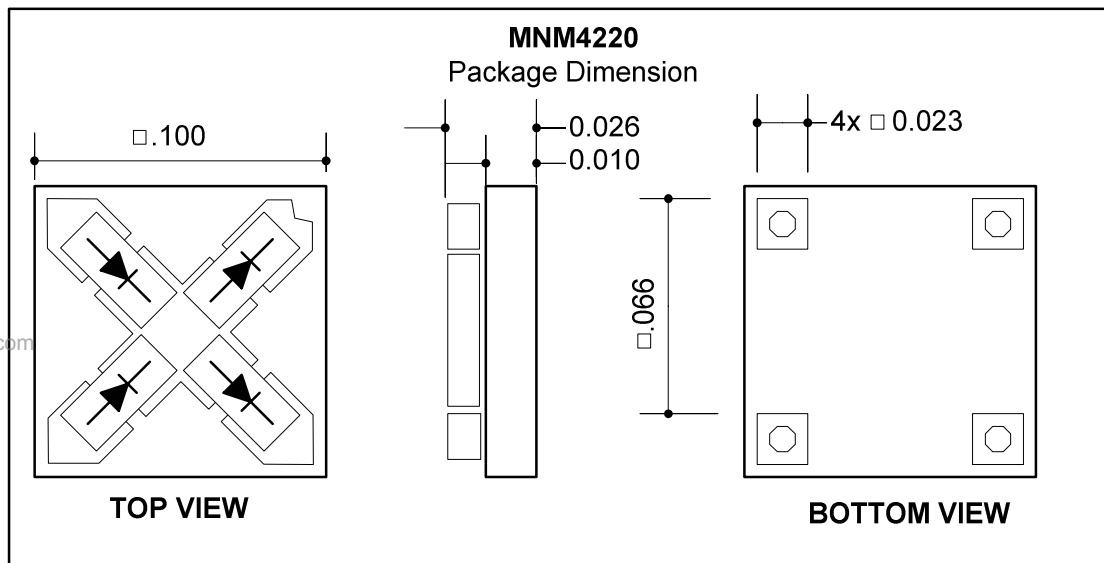
MNM4220: JUNCTION/DIVERSITY SWITCH*

Isolation	Insertion Loss	VSWR	Power Handling
40dB @ 0.1GHz	0.2dB @ 0.1GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
30dB @ 1.0GHz	0.3dB @ 1.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
25dB @ 2.0GHz	0.3dB @ 2.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
15dB @ 4.0GHz	0.5dB @ 4.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
15dB @ 5.0GHz	0.5dB @ 5.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power
15dB @ 6.0GHz	1.0dB @ 6.0GHz	1.5:1 from 0.1GHz to 6.0GHz, all ports	10 Watts CW incident power

*Typical performance at 5mA

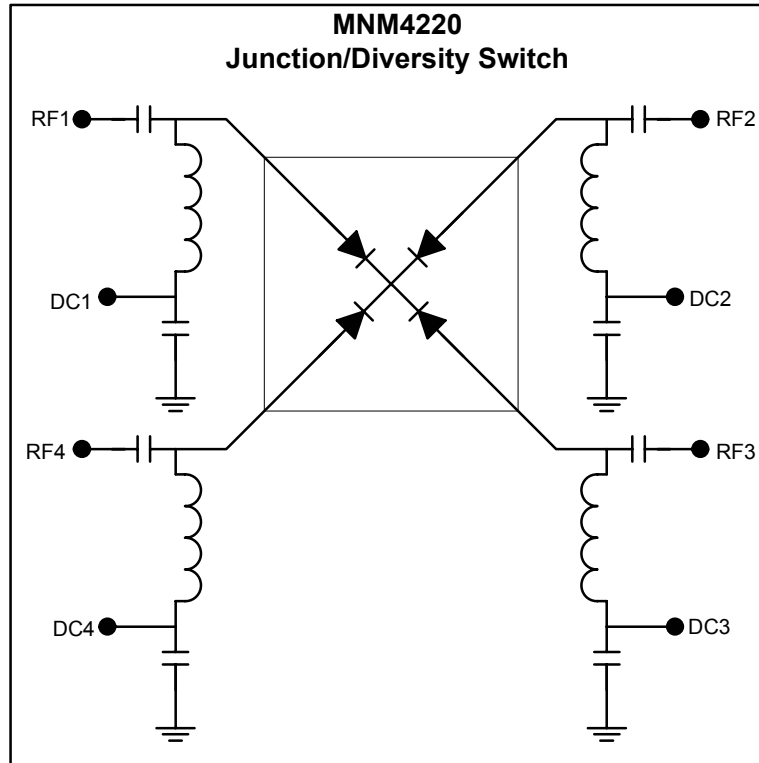
Note: Above typical performance is for single junction configuration. Additional isolation improvement can be obtained by using a dual junction configuration

MNM4220 SERIES / PACKAGE DIMENSION



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MNM4210 SERIES: JUNCTION/DIVERSITY SWITCH*



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