

# MAXNET®

## Active Amplifiers & RF Switches RF Switches



Patented  
U.S.#s 6,842,348; 7,043,236;  
Cdn.#s 2,404,840; 2,404,844

5RU Active RF Chassis  
(front view)

D3.1/CCAP™  
Compliant

### Specifications

#### RF Detector/Switch

	MNRSF REDUNDANT AMPLIFIER CONFIGURATION	MNRSF RF DETECTOR A/B SWITCH CONFIGURATION
<b>RF (5-1000 MHz)</b>		
INSERTION LOSS (Max)	2.3 dB <sup>(1)</sup>	2.3 dB / 1.5 dB <sup>(3)</sup>
INPUT/OUTPUT RETURN LOSS (Min)	18 dB	18 dB
ISOLATION (Min)	70 dB <sup>(2)</sup>	70 dB
<b>OPERATIONAL</b>		
COMPOSITE RF POWER RANGE	40-70 dBmV	
SWITCH THRESHOLD RANGE	37-67 dBmV	
SWITCH THRESHOLD CONTROL	Font Panel Control	
SWITCH TIME (Max)	10mS	
SWITCH STATUS INDICATION	Front Panel LED & Rear NO Contact	
OPERATING TEMPERATURE	-40°C to +60°C (-40°F to +140°F)	
<b>ELECTRICAL</b>		
INPUT VOLTAGE	24V	
INPUT CURRENT	70mA	
POWER INDICATOR	Front Panel LED	
<b>OTHER</b>		
HUMIDITY	5-95% (without condensation)	
DIMENSIONS	8.6"H x 1.75"W x 2.5"D (21.84H x 4.45W x 6.35D cm)	
WEIGHT	1.04 lbs (0.47 kg)	1.06 lbs (0.48 kg)



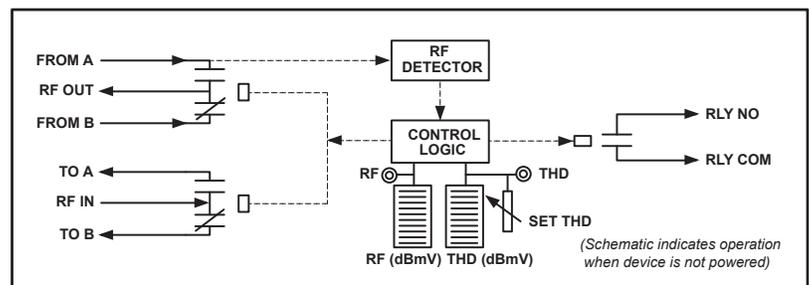
RF Detector /  
Switch

NOTES:

- (1) Input section < 0.5 dB; Output section < 1.8 dB.
- (2) Isolation measured between primary (A) and secondary (B) paths.
- (3) Loss for A/B (0.8 dB allowance for coupler).

### Rear Panel Terminal Block Assignment

TB#	RF DETECTOR / SWITCH
1	V PWR
2	COM
3	V THD
4	RLY COM
5	RLY NO



Functional Schematic

## Ordering Information

Part Number	Description
MNRSDF	RF Detector / Switch with Switch Delay and Level Modification
MNRSF	RF Detector / Switch, F Connectors
MNRSLF	RF Detector Switch with Low Level Mod (25-55 dBmV)

## Specifications

### Dual A/B Switch

		MNDABF
<b>RF (5-870 MHz)</b>		
INSERTION LOSS (Max)		0.5 dB
INPUT/OUTPUT RETURN LOSS (Min)		18 dB
ISOLATION (Min)		60 dB
<b>OPERATIONAL</b>		
SWITCH TRANSFER CONTROL		Front Panel Pushbutton or Remote Pulsed Logic Signal (5-24 VDC)
SWITCH TRANSFER TIME		< 10mS
SWITCH STATUS INDICATION		Front Panel LED and Rear TB NO Contact
OPERATING TEMPERATURE		-40°C to +60°C (-40°F to +140°F)
<b>ELECTRICAL</b>		
INPUT VOLTAGE		24V
INPUT CURRENT		70mA
POWER INDICATION		Front Panel LED
<b>OTHER</b>		
HUMIDITY		5-95% (without condensation)
DIMENSIONS		8.6"H x 1.75"W x 2.5"D (21.84H x 4.45W x 6.35D cm)
WEIGHT		1.06 lbs (0.48 kg)



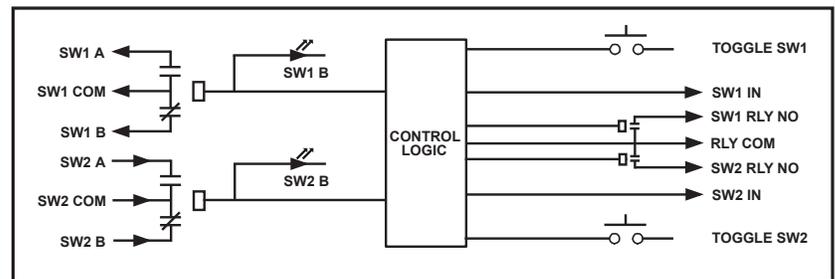
Dual A/B Switch

## Ordering Information

Part Number	Description
MNDABF	Dual A/B Switch, F Connectors

## Rear Panel Terminal Block Assignment

TB#	DUAL A/B SWITCH
1	SW1 IN
2	SW1 RLY NO
3	COM
4	SW2 RLY NO
5	SW2 IN



Functional Schematic

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MAXNET specifications are only valid when ATX plug-in pads and EQs are used.

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