

RM300-0(BB)X(Y)B Rx multicoupler, variable attenuator, fault monitor, 380-512 MHz

- Connects 8 to 24 receivers to a single antenna, expandable to up to 32 channels
- Adjustable system gain from 0 to 15 dB for flexible optimization
- Built-in LED indicator for LNA status monitoring
- Post-filtering ports allow for easy addition of an external filter for greater selectivity

The RM300-X is Sinclair Technology's newest line of high-performance receiver multicoupler, designed to be flexible, reliable, and compact. Available in 8, 16, and 24 channel configurations, these multicouplers feature a variable step attenuator for precise output gain adjustment. An LED indicator displays the status of the amplifier, and a form C output alarm contact allows for seamless integration with external alarm systems.



Product may not appear exactly as shown.

For added convenience, a 30 dB test port is located on the front panel, enabling receiver sensitivity testing without disconnecting the RX path. The latest X version is engineered to operate within a wider temperature range, ensuring the flexibility and reliability required for LMR systems.

When ordering, please refer to the chart below for the exact part# and configurations.

Part#	Channel	Power supply
RM300-008X11B	8	100-240 VAC
RM300-016X11B	16	100-240 VAC
RM300-024X11B	24	100-240 VAC
RM300-008X10B	8	-48 VDC
RM300-016X10B	16	-48 VDC
RM300-024X10B	24	-48 VDC
RM300-008X5B	8	48 VDC
RM300-016X5B	16	48 VDC
RM300-024X5B	24	48 VDC

Note:

- * The power module includes a secondary +12 to +18 VDC input for backup power.
- * If a preselector is required, it must be ordered separately.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Electrical Specifications

Frequency Range	MHz	380 to 512	
System gain	dB	0-15	*1
Input Connectors		N-Female	
Output Connectors		BNC-Female	
Input VSWR (typ)		1.5:1	
Output VSWR (max)		1.5:1	
Impedance	Ω	50	
1 dB Compression Point - Amplifier	dBm	28	*2
Third Order Intercept - Amplifier	dBm	43	*3
Third Order Intercept - System	dBm	18	*4
Isolation Rx to Rx	dB	20	
Noise Figure - Amplifier (max)	dB	1	
Noise Figure - System (typ)	dB	1.2	
Supply voltage		See table	

Notes

- *1 : Attenuator adjustable in 1 dB step
- *2 : Output, Typ.
- *3 : Output, Typ.
- *4 : Output, Typ.
- *5 : \pm 1 lbs

Mechanical Specifications

Width	in (mm)	19 (483)	
Depth	in (mm)	14.12 (359)	
Length/ Height	in (mm)	1.75 (44)	
Weight	lbs (kg)	7 (3.18)	*5
Mounting configurations		19 inch rack	
Shipping dimensions	in (mm)	22x17x4 (559x432x102)	

Environmental Specifications

Temperature range	$^{\circ}$ F ($^{\circ}$ C)	-22 to +140 (-30 to +60)
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