

Duplexers Low Band, Aviation, and VHF Duplexers MR256 Series

MR256 SERIES

Duplexer, 6 cavity mobile, 4.5 to 10 MHz separation, 136-174 MHz

- · Six highly stable temperature compensated helical resonators
- Enclosure made of lightweight and rugged aluminum extrusion
- 50 Watts power handling with 80 dB Tx to Rx isolation
- Minimum Tx-Rx spacing of 4.5 MHz, maximum of 10 MHz

Sinclair's MR256 series of mobile duplexers are compact units, fabricated from lightweight, rugged aluminum extrusion, which affords maximum structural integrity. Carefully temperature-compensated resonators are designed to minimize variations due to changing operating environments. These duplexers provide superior performance for trunking and conventional applications, and may also be used as low-power base station duplexers.

When ordering, please refer to the chart below for the model number, and also specify the Tx and Rx frequencies. Different connector configurations are subject to various list price. Customization is also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.



BNC connector model shown

Part Number	Connector	Frequency range
MR256B-1	BNC(f)	136-148 MHz
MR256B-2	BNC(f)	148-160 MHz
MR256B-3	BNC(f)	160-174 MHz
MR256B-5	BNC(f)	153-166 MHz
MR256N-1	N(f)	136-148 MHz
MR256N-2	N(f)	148-160 MHz
MR256N-3	N(f)	160-174 MHz
MR256N-5	N(f)	153-166 MHz
MR256T-1	TŇĆ(f)	136-148 MHz
MR256T-2	TNC(f)	148-160 MHz
MR256T-3	TNC(f)	160-174 MHz

Note:

The MR series of compact mobile duplexers can be re-tuned within the sub-band for which the unit was designed, as long as the Tx/Rx separation remains the same. Tuning procedures are available upon request. Significant Tx/Rx frequency separation re-tuning requires shipping the units back to the factory. Please call for details.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification	n Sheet	MR256 SERIES	leane. U	Dated: 27-10-20

Temperature range



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Frequency Range	MHz	136 to 174	
Number of Cavities - Low Pass Side		3	
Number of Cavities - High Pass Side		3	
Connectors		Various	*1
nput VSWR (max)		1.5:1	
nsertion loss (max)	dB	1.5	
mpedance	Ω	50	
solation - Tx noise suppression at Rx (min)	dB	80	
· · · · · · · · · · · · · · · · · · ·	٦D	80	
solation - Rx carrier suppression at 1x (min)	dB	00	
solation - Rx carrier suppression at Tx (min) Average Input Power (max)	W	50	*2
Average Input Power (max) Frequency Separation Range		**	*
Average Input Power (max) Frequency Separation Range Mechanical Specifications	W MHz	50 4.5 to 10	*′2
Average Input Power (max) Frequency Separation Range Mechanical Specifications Width	W MHz in (mm)	50 4.5 to 10 6.26 (159)	*2
Average Input Power (max) Frequency Separation Range Mechanical Specifications Width Depth	W MHz in (mm) in (mm)	50 4.5 to 10 6.26 (159) 7 (178)	**
Average Input Power (max) Frequency Separation Range Mechanical Specifications Width Depth Length/ Height	W MHz in (mm)	50 4.5 to 10 6.26 (159)	***
Average Input Power (max) Frequency Separation Range Mechanical Specifications	W MHz in (mm) in (mm)	50 4.5 to 10 6.26 (159) 7 (178) 1.31 (33)	***
Average Input Power (max) Frequency Separation Range Mechanical Specifications Width Depth Length/ Height Finish Weight	W MHz in (mm) in (mm) in (mm)	50 4.5 to 10 6.26 (159) 7 (178) 1.31 (33) chemical conversion	***
Average Input Power (max) Frequency Separation Range Mechanical Specifications Width Depth Length/ Height Finish	W MHz in (mm) in (mm) in (mm)	50 4.5 to 10 6.26 (159) 7 (178) 1.31 (33) chemical conversion 2 (0.91)	***

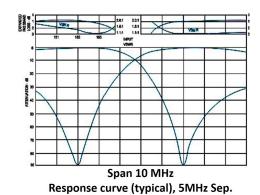
°F (°C)

Notes

- *1 : See previous page for details
- *2:40 watts for base station usage scenario

Ordering Information

Specify Tx and Rx frequencies when ordering.



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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification	n Sheet	MR256 SERIES	Issue: 0	Dated: 27-10-20

-22 to +140 (-30 to +60)