

MD256 SERIES Duplexer, compact, 6 cavity, 136-174 MHz

- Compact and rugged design, ideal for mobile applications
- Low insertion loss for optimal system performance
- High isolation to minimize interference
- Tx-Rx spacing: 4.5 to 5.5 MHz; 8 to 10 MHz

MD256 series is Sinclair's new line of mobile duplexer that features six resonators for outstanding performance. This duplexer allows bi-directional communication over a common antenna and is ideal for applications that call for a compact rugged unit, such as in vehicles, or where space is constrained.

See below chart for detailed ordering information, and specify Tx and Rx frequencies when ordering. Other connector types are also available, please call for details

Part#	Connector	Frequency range	Separation
MD256N-1-1	N	136-148 MHz	4.5 to 5.5 MHz
MD256N-1-2	N	136-148 MHz	8 to 10 MHz
MD256N-2-1	N	148-160 MHz	4.5 to 5.5 MHz
MD256N-2-2	N	148-160 MHz	8 to 10 MHz
MD256N-3-1	N	160-174 MHz	4.5 to 5.5 MHz
MD256N-3-2	N	160-174 MHz	8 to 10 MHz



N type connector model shown.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet		MD256 SERIES	Issue: 1	Dated: 02-10-20

Electrical Specifications

Frequency Range	MHz	136 to 174	
Number of Cavities - Low Pass Side		3	
Number of Cavities - High Pass Side		3	
Connectors		N-female	*1
Input VSWR (max)		1.5:1	
Insertion Loss (max) Tx to Ant	dB	1.5	
Impedance	Ω	50	
Average Input Power (max)	W	50	*2
Isolation (min)	dB	80	

Notes

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

Mechanical Specifications

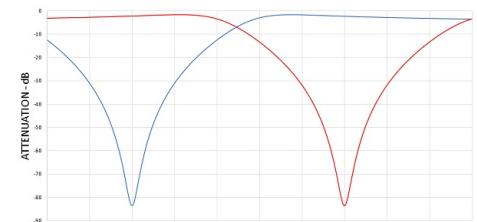
Width	in (mm)	6.05 (154)
Depth	in (mm)	7.03 (179)
Length/ Height	in (mm)	1.25 (32)
Weight	lbs (kg)	2.2 (1)
Mounting configurations		mounting holes on unit
Actual shipping weight	lbs (kg)	2.7 (1.23)
Shipping dimensions	in (mm)	13x9x3 (330x229x76)

Ordering Information

Specify Tx and Rx frequencies when ordering.

Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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Typical response curve for 5 MHz separation

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