

MR456(X)-2-1 Duplexer, 6 cavity mobile, 30 MHz separation, 746-806 MHz

- Six highly stable temperature compensated helical resonators
- Enclosure made of lightweight and rugged aluminum extrusion
- 50 Watts power handling with 75 dB Tx to Rx isolation

Sinclair's MR456 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.

Part Number	Connector
MR456B-2-1	BNC(f)
MR456N-2-1	N(f)
MR456T-2-1	TNC(f)



N 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		MR456(X)-2-1	Issue: 1	Dated: 02-10-20

Electrical Specifications

Frequency Range	MHz	746 to 806
Number of Cavities - Low Pass Side		3
Number of Cavities - High Pass Side		3
Connectors		Various
Input VSWR (max)		1.5:1
Insertion loss (max)	dB	1
Impedance	Ω	50
Isolation - Tx noise suppression at Rx (min)	dB	75
Isolation - Rx carrier suppression at Tx (min)	dB	75
Average Input Power (max)	W	50

Notes

*1 : See previous page for details

Mechanical Specifications

Width	in (mm)	6.25 (159)
Depth	in (mm)	5.8 (147)
Length/ Height	in (mm)	1.31 (33)
Weight	lbs (kg)	1.8 (0.82)
Actual shipping weight	lbs (kg)	2 (0.91)
Shipping dimensions	in (mm)	9x6x3 (229x152x76)

Ordering Information

Specify Tx and Rx frequencies when ordering.

Environmental Specifications

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