

A Norsat Company in Norsat



## MR454 SERIES

Duplexer, 4 cavity mobile, 24 or 45 MHz separation, 806-960 MHz

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

Sinclair's MR454 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	Frequency Separation
MR454B-1-1	BNC(f)	45 MHz
MR454B-1-2	BNC(f)	24 MHz
MR454N-1-1	N(f)	45 MHz
MR454N-1-2	N(f)	24 MHz
MR454T-1-1	TŇĆ(f)	45 MHz
MR454T-1-2	TNC(f)	24 MHz



BNC connector model shown

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 Specificatio	n Sheet	MR454 SERIES	Issue: 1	Dated: 02-10-20



A Norsat Company Norsat International Inc.

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Shipping dimensions

## Duplexers 700-1000 MHz Duplexer MR454 Series

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

Electrical Specifications		2001 200	
Frequency Range	MHz	806 to 960	
Number of Cavities - Low Pass Side		2	
Number of Cavities - High Pass Side		2	
Connectors		Various	*1
Input VSWR (max)		1.5:1	
Insertion loss (max)	dB	1	
Impedance	Ω	50	
Isolation - Tx noise suppression at Rx (min)	dB	50	
Isolation - Rx carrier suppression at Tx (min)	dB	50	
Average Input Power (max)	W	50	*2
Frequency separation range	MHz	24 or 45	

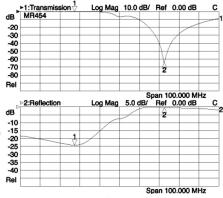
## **Mechanical Specifications** Width 4.1 (104) in (mm) Depth 5.75 (146) in (mm) Length/ Height in (mm) 1.25 (32) Finish chemical conversion Weight lbs (kg) 1.6 (0.73) Actual shipping weight lbs (kg) 1.6 (0.73)

in (mm)

Environmental Specifications
Temperature range °F (°C) -22 to +140 (-30 to +60)

Ordering Information

Specify Tx and Rx frequencies when ordering.



Response curve (typical), 45MHz Sep.

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
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9x6x2.5 (229x152x64)