

**MR2222 SERIES** Duplexer, 4 cavity mobile, 5 or 10 MHz separation, 138-174 MHz

- Extremely compact form factor
- 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 MR2222 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 Sep.	Frequency Range	Insertion Loss
		MHz	MHz	
MR2222B-1-1	BNC(f)	5	138-155	1.5
MR2222B-1-2	BNC(f)	10	138-155	1
MR2222B-2-1	BNC(f)	5	150-174	1.5
MR2222B-2-2	BNC(f)	10	150-174	1
MR2222T-1-1	TNC(f)	5	138-155	1.5
MR2222T-1-2	TNC(f)	10	138-155	1
MR2222T-2-1	TNC(f)	5	150-174	1.5
MR2222T-2-2	TNC(f)	10	150-174	1

BNC connector model shown.

www.sinctech.com

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

#### Electrical Specifications

Frequency Range	MHz	138 to 174	
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	1.5	*2
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	*3
Frequency separation range	MHz	5 or 10	*4

#### Notes

- \*1 : See previous page for details.
- \*2 : 1.5 dB at 5 MHz spacing; 1 dB at 10 MHz spacing.
- \*3 : 40 watts for base station usage scenario
- \*4 : See previous page for details.

#### Mechanical Specifications

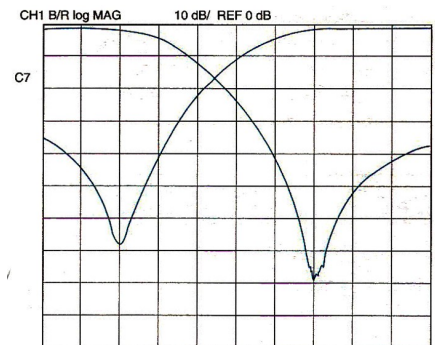
Width	in (mm)	4.3 (109)
Depth	in (mm)	4.06 (103)
Length/ Height	in (mm)	1.31 (33)
Finish		chemical conversion
Weight	lbs (kg)	1 (0.45)
Actual shipping weight	lbs (kg)	2 (0.91)
Shipping dimensions	in (mm)	13x9x3 (330x229x76)

#### 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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Span 10 MHz  
Response curve (typical), 5MHz Sep.

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