

Duplexers Low Band, Aviation, and VHF Duplexers MR2222 Series

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	dB(max)
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(Ť)	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(ť)	10	150-174	1



BNC connector model shown.

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
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Product Specification Sheet EPR 015349 Customer Tech Manual 005716		MR2222 SERIES	Issue: 0	Dated: 30-07-19 Dated: 25-07-19



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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	
Frequency separation range	MHz	5 or 10	*3

Notes

- *2 : 1.5 dB at 5 MHz spacing; 1 dB at 10 MHz spacing.
- *3 : See previous page for details.

Ordering Information

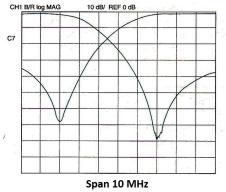
Specify Tx and Rx frequencies when ordering.

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)	

Environmental Specifications

	0= (0.0)	
l emperature range	°F (°C)	-22 to +140 (-30 to +60)
	(- /	



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

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		Sinclair's commitment to product leadership may result in improvement or change to this product		

^{*1 :} See previous page for details.