

**MR254N-2** Duplexer, mobile, compact, 4 cavity, N-Female connector, 148-160 MHz

Also referred as: MR254N\*2

- Utilizes four rugged, temperature compensated helical resonators
- Enclosure is made of lightweight but rugged aluminum extrusion
- 50 Watts with 60 dB Tx to Rx isolation
- 4.5 MHz minimum/ 10 MHz maximum spacing

The MR254 series is a compact mobile duplexer for use in the VHF frequency bands. It utilizes four rugged, carefully temperature-compensated resonators housed in a lightweight, aluminum extrusion.

The use of low loss internal components and copper center conductors produces a unit which delivers superior performance in conventional mobile applications. Its size and versatility make this an ideal unit for use where space is limited. Original equipment manufacturers of bi-directional amplifiers and coverage extenders find this product ideal when integrating into their product.

### Application Notes

- Variations on connectors, mounting and cavity configurations are available on special order. Consult Sinclair to determine the best solution for your system requirement.
- The MR series of compact mobile duplexers can be retuned within the sub-band for which the unit was designed; tuning procedures are available upon request.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet EPR 016799		MR254N-2	Issue: 47	Dated: 19-03-13 Dated: 10-02-03

### Electrical Specifications

Frequency Range	MHz	148 to 160
Number of cavities Tx Side		2
Number of Cavities Rx Side		2
Input VSWR (max)		1.5:1
Impedance	Ω	50
Average Power Input (max)	W	50
Connectors		N-Female
Frequency separation (min)	MHz	4.5
Insertion loss (max) Tx to Ant	dB	1.2
Isolation (min)	dB	60

### Mechanical Specifications

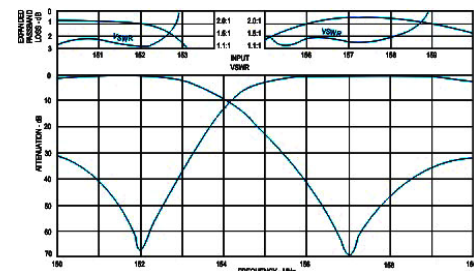
Depth	mm (in)	178 (7)
Length/ Height	mm (in)	33 (1.31)
Width	mm (in)	105 (4.13)
Weight	kg (lbs)	0.82 (1.8)
Finish		chemical conversion
Actual Shipping weight	kg (lbs)	0.91 (2)
Shipping dimensions	mm (in)	330x229x76 (13x9x3)

### Environmental Specifications

Temperature range	°C (°F)	-30 to +60 (-22 to +140)
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### Ordering Information

Specify Tx and Rx frequencies at time of order.



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