

I221(Y)A Compact Rugged Isolator/ Circulator, 132-174 MHz

- Temperature compensated
- Low insertion loss, high isolation
- High reliable design with top quality sub-components
- Each unit is optimized to customer specified frequency

Sinclair's 'I2' series isolators and circulators offer superior performance in a compact rugged package. Careful temperature compensation and top quality components ensure high isolation with very low insertion loss over their full operating temperature range, and offer a high degree of RF and magnetic stability.

Circulators are supplied without loads. Isolators come equipped with a variety of load terminations.

Threaded holes in the steel casing allow surface mounting to any non-magnetic material. Aluminum brackets can also be supplied to isolate the unit from the mounting surface to increase stability.

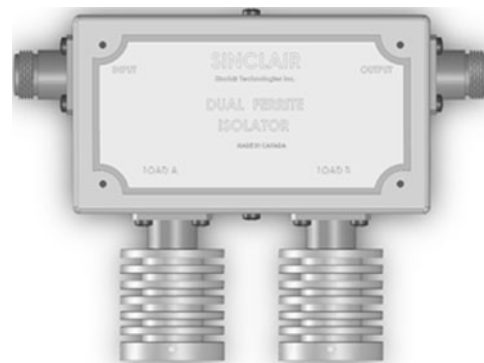
A variety of models are available factory-tuned in the 70, 150, 450 and 800 MHz frequency bands.

Circulators are supplied without loads. Isolators come equipped with a variety of load terminations.

Please specify the Tx frequency and load requirement at the time of order, or contact your Sinclair Sales Representative or Customer Service Representative for assistance and detailed info.

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|---|---|
| Y | Load |
| 0 | No load (Circulator only) |
| 2 | Dual load, 30 watt for load A and 30watt for load B |
| 3 | Dual load, 30 watt for load A and 60watt for load B |

In addition, field tunable isolators are available for the 132-174 and 406-512 MHz bands. Suffix 'T' on applicable model numbers designates field tunable.



I2212A dual 30 watt 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
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		I221(Y)A	Issue: 2	Dated: 25-04-16

Electrical Specifications

Frequency Range	MHz	132 to 174
Bandwidth	MHz	5
Field Tunable		No
VSWR (max)		1.25:1
Isolation (typ)	dB	75
Connectors		N-Female
Power Input	W	125
Insertion Loss (typ) Tx to Ant	dB	0.7
Insertion Loss (max) Tx to Ant	dB	1
Isolation (min)	dB	50

Notes

*1 : Typical VSWR 1.15:1

Mechanical Specifications

Width	in (mm)	4.5 (114)
Depth	in (mm)	1.4 (36)
Length/ Height	in (mm)	2.5 (64)
Weight	lbs (kg)	2.2 (1)
Actual shipping weight	lbs (kg)	3 (1.36)
Shipping dimensions	in (mm)	13x9x3 (330x229x76)

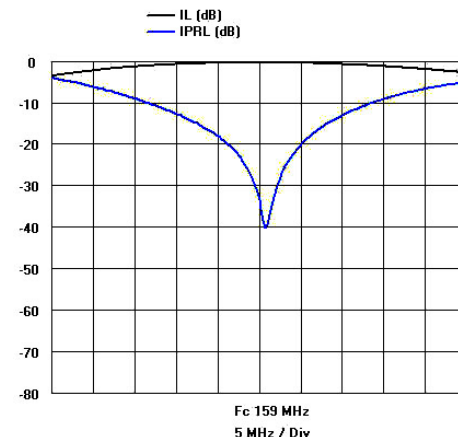
Environmental Specifications

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

Height, width, depth and weight excludes connectors and loads.

Specify Tx frequency for unit to be tuned to.



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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
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