

I321(Y)T-(Z) Compact Rugged Isolator/ Circulator, 406-512 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 'I3' 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. 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.

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

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

Y Load
 0 No load
 2 Dual 30 watt
 3 30 watt + 60 watt

Z Frequency Range
 1 406-430 MHz
 2 430-450 MHz
 3 450-470 MHz
 4 470-490 MHz
 5 490-512 MHz



Dual 30 Watt model shown

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		I321(Y)T-(Z)	Issue: 2	Dated: 06-07-15

Electrical Specifications

Frequency Range	MHz	406 to 512
Bandwidth	MHz	12
Field Tunable		Yes
VSWR (max)		1.25:1
Insertion loss (typ) Tx to Ant	dB	0.6
Isolation (typ)	dB	75
Connectors		N-Female
Power Input	W	125
Insertion loss (max) Tx to Ant	dB	0.9
Isolation (min)	dB	50

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)	3.5 (1.59)
Shipping dimensions	in (mm)	13x9x3 (330x229x76)

Ordering Information

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

Specify Tx frequency at time of order.

Environmental Specifications

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