

**HH3140B** Coupler, balanced, 3% B.W., N-Female, 300 Watts, 406-512 MHz

- N-Female connectors on all ports
- Max insertion loss of 3.3 dB per port
- 300 Watts power handling
- VSWR less than 1.25 for T1 to T2 ports

With the growing requirement for closely-spaced higher power systems, Sinclair has introduced several new hybrid couplers. These hybrids have been carefully designed to handle the power levels used for “upband” trunking and 900 MHz paging. A UHF version is also available for use in conjunction with our new CT-453 cavity-ferrite combiners, which allows channel spacing as close as 75 kHz on an 8-channel system. When installed on a panel with suitable Sinclair loads and harmonic filters, this series of ‘HP’ hybrid couplers is the basis of our higher power hybrid-ferrite combiners: a hybrid coupler panel is used to expand a 2-channel combiner up to 4 channels, 4 up to 6, etc.

All Sinclair hybrid couplers except HH-1140 are field tunable.



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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### Electrical Specifications

Frequency Range	MHz	406 to 512	*1
VSWR (max)		1.25:1	*2
Impedance	Ω	50	
Connectors		N-female	*3
Power Rating	W	300	
Insertion Loss (max) Tx to Ant	dB	3.3	*4
Isolation (min)	dB	45	

### Notes

- \*1 : Bandwidth at 3% of center frequency
- \*2 : T1 to T2 ports
- \*3 : (T1 to T2 inputs) and (Load to antenna)
- \*4 : Per port
- \*5 : Excluding connectors
- \*6 : Excluding connectors
- \*7 : Excluding connectors

### Mechanical Specifications

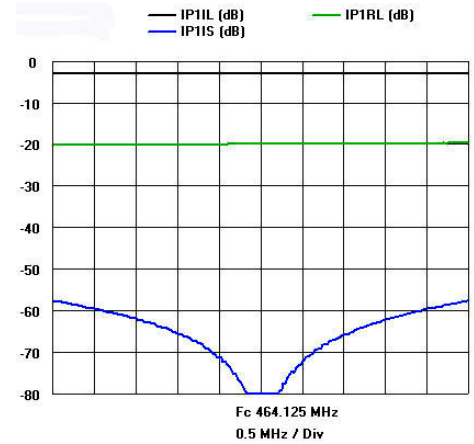
Width	in (mm)	7 (178)	*5
Depth	in (mm)	1 (25)	*6
Length/ Height	in (mm)	1.2 (30)	*7
Weight	lbs (kg)	1.25 (0.57)	
Actual shipping weight	lbs (kg)	2 (0.91)	
Shipping dimensions	in (mm)	9x6x2.5 (229x152x64)	

### Ordering Information

Specify two Transmit frequencies at time of order.

### Environmental Specifications

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