

**HH3141HP** Coupler, unbalanced, 3% B.W., 7.3/1.2 dB, N-Male/ N-Female, 600 Watts, 406-512 MHz

- Bandwidth is 3% of center frequency
- 600 Watts power handling
- Unbalanced with 7.3 dB one port, 1.2 dB other port
- T1 to T2 inputs N Male, Load and antenna termination N Female.

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.



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
Connectors		N-Male/N-Female	
VSWR (max)		1.25:1	*2
Insertion Loss (max) Tx to Ant	dB	7.3	
Impedance	Ω	50	
Power Rating	W	600	
Isolation (min)	dB	45	

### Notes

- \*1 : Bandwidth at 3% of centre frequency
- \*2 : T1 to T2 ports
- \*3 : Excluding connectors

### Mechanical Specifications

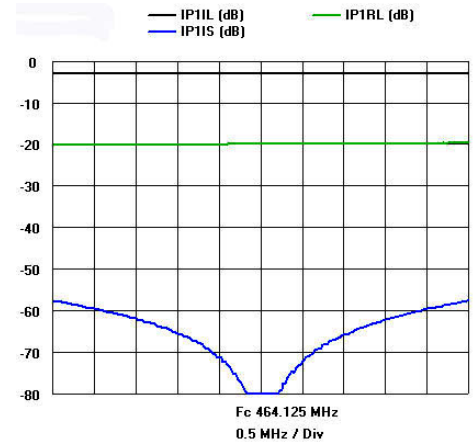
Width	in (mm)	7 (178)	*3
Depth	in (mm)	1.2 (30)	
Length/ Height	in (mm)	1 (25)	
Weight	lbs (kg)	0.8 (0.36)	
Actual shipping weight	lbs (kg)	3 (1.36)	
Shipping dimensions	in (mm)	13x9x3 (330x229x76)	

### Ordering Information

Specify two transmit frequencies when ordering.

### Environmental Specifications

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