

HH4140 Coupler, balanced, 3% B.W., N-Male/ N-Female, 300 Watts, 806-960 MHz

- Rugged N-Female / N-Male design
- 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

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Electrical Specifications

Frequency Range	MHz	806 to 960	*1
VSWR (max)		1.25:1	
Impedance	Ω	50	
Connectors		N-Male/N-Female	
Power Rating	W	300	
Insertion loss (max) Tx to Ant	dB	3.3	*2
Isolation (min)	dB	45	

Mechanical Specifications

Depth	in (mm)	1 (25)	*3
Length/ Height	in (mm)	1.2 (30)	*4
Width	in (mm)	3.8 (97)	*5
Weight	lbs (kg)	0.6 (0.27)	
Actual Shipping weight	lbs (kg)	2 (0.91)	
Shipping dimensions	in (mm)	13x9x3 (330x229x76)	

Environmental Specifications

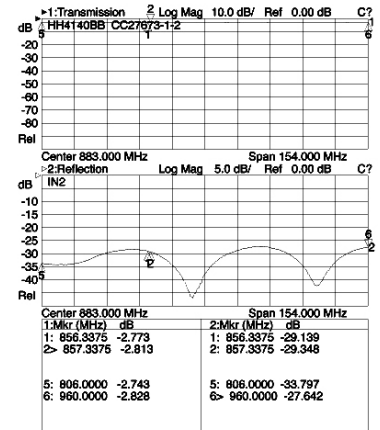
Temperature range	°F (°C)	-22 to +140 (-30 to +60)
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Notes

- *1 : Bandwidth at 3% of center frequency
- *2 : Per port
- *3 : Excluding connectors
- *4 : Excluding connectors
- *5 : Excluding connectors

Ordering Information

Specify operating frequencies.



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