

Filters & Combiners

DATA SHEET

Wideband Hybrid Combiner

HYO-67-2xx

- Wideband Hybrid Combiner covering 617 2690 MHz
- Near lossless combining
- Coupled port
- High in-band isolation
- Outdoor capable unit
- Very low PIM
- High power Handling 500W per port and 3KW peak
- RoHS compliant

Overview

CCI's Wideband 2-Way Hybrid Combiner with Coupler provides a solution where combining two RF inputs into one or two common outputs is required. The unit is housed in a weatherproof outdoor enclosure for outdoor basestation or tower mount applications.

Technical Description:

CCI's Outdoor Wideband 2-Way Hybrid Combiner covers the full 617 - 2690 MHz spectrum. The unit is housed in an IP67 moisture proof enclosure, with IP67 moisture proof connectors suited for long-life. The combiner can be wall or pole mounted.



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PECIFICATIONS	Wideband	Hybrid Combine	er	HYO-67-2xx	
	Electrical				
	RF Parameters	Ports	Frequency(MHz)	Specification	
	Insertion Loss	Input* to Output*	617 - 2690	3.05 dB ± 0.4 dB	
		Input* to Coupler	617 - 2690	34 dB ± 10 dB	
	Isolation	Input* to Input*	617 - 2690	30 dB min. , 32 dB typ.	
	Return Loss	All Ports	617 - 2690	25 dB min.	
		*Input Refers to Ports 1-2 and Output Refers to Ports 3-4			
	General Characteristics				
	Impedance	50 ohms			
	Continuous Average Power	500 W maximum (per port)			
	Peak Envelope Power	r 3 kW maximimum			
	Intermodulation Performance	e <-160 dBc (-117 dBm) minimum, <-165 dBc (-122 dBm) typ. (2 × 43 dBm carriers)			
	DC Pass Current/AISG Pass	DC paths: Port 1 to Port 3; Port 2 to Port 4; (max 6.5 A per AISG 2.0)			
	Environmental		_		
	Operating Temperature	-40°C to +70°C			
	Ingress Protection	n IP67			
	Relative Humidty	0 - 95%			
	Mechanical		_		
	Parameters	HYO-67	-2F1	HYO-67-2F2	
	Input Connectors	7-16 DIN fe		4.3-10 female × 2	
	Output Connectors	7-16 DIN fe		4.3-10 female × 2	
	Coupler Connector				
	Dimensions (body only)(H×W×D)	1.89 × 6.65× 1.61 in. (48.0 × 169.0 × 41.0 mm)			
	Dimensions (incl. brackets)(H×W×D)	5.04	× 7.68 × 2.20 in. (128.0) × 195.0 × 56.0 mm)	

2.6 lbs (1.18 Kg)

Pole/Wall mounting bracket

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brackets)(H×W×D) Weight with brackets

Mounting

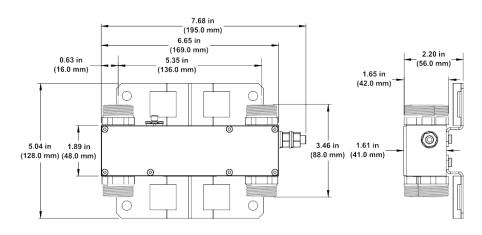
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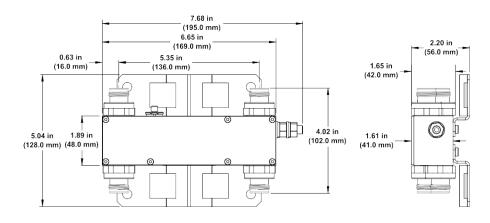
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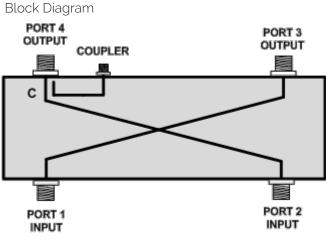
SPECIFICATIONS



2-Way Hybrid Combiner Outline Drawing with DIN Connectors



2-Way Hybrid Combiner Outline Drawing with 4.3-10 Conneectors



 2×2 Hybrid Combiner with Coupler Block Diagram

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Parts & Accessories

Outdoor Wideband 2-Way Hybrid Combiner with Coupler and DIN Connectors
Outdoor Wideband 2-Way Hybrid Combiner with Coupler and 4.3-10 Connectors

Standards & Compliance

Safety	EN 60950-1, UL 60950-1
Emission	EN 55022
Immunity	EN 55024
Environmental	IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-5, IEC 60068-2-6, IEC-60068-2-11, IEC 60068-2-14, IEC 60068-2-18, IEC 60068-2-27, IEC 60068-2-29, IEC 60068-02-30, IEC 60068-2-52, IEC 60068-2-64, GR-63-CORE 4.3.1, EN 60529 IP65 & IP67

Certifications

Antenna Interface Standards Group (AISG), Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US, ISO 9001



