

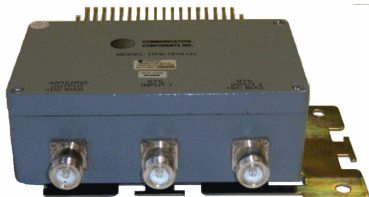


Filters & Combiners

DATA SHEET

PCS Hybrid Combiner

HYB-1819-OL



- Outdoor Unit
- High Isolation
- DC Input pass through on BTS 2 port to Antenna port for powering TMA's

Overview

CCI's Outdoor PCS 2-Way Hybrid Combiner with integrated Load provides an Outdoor solution where combining of multiple basestation outputs onto a common output is required. The unit is housed in a weatherproof outdoor enclosure for outdoor tower mount applications.

Technical Description:

CCI's Outdoor PCS 2-Way Hybrid Combiner with integrated Load covers the full PCS TX and RX spectrum. The unit allows D.C. pass-through on the BTS INPUT 2 Port and the ANTENNA OUTPUT Port for powering Tower Mount Amplifiers. The unit is housed in an IP65 moisture proof enclosure, with IP68 immersion proof connectors suited for long-life. The combiner can be wall or pole mounted.



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SPECIFICATIONS

PCS Hybrid Combiner

HYB-1819-OL

Electrical

RF Parameters	Ports	Frequency(MHz)	Specification
Return Loss	ANT	1810 - 1990	18 dB min.
	BTS INPUT 1	1810 - 1990	18 dB min.
	BTS INPUT 2	1810 - 1990	18 dB min.
Insertion Loss	ANT to BTS INPUT 1	1810 - 1990	3.5 dB $\pm$ 0.25 dB
	ANT to BTS INPUT 2	1810 - 1990	3.5 dB $\pm$ 0.25 dB
Isolation	BTS INPUT 1 to BTS INPUT 2	1810 - 1990	25 dB min.

General Characteristics

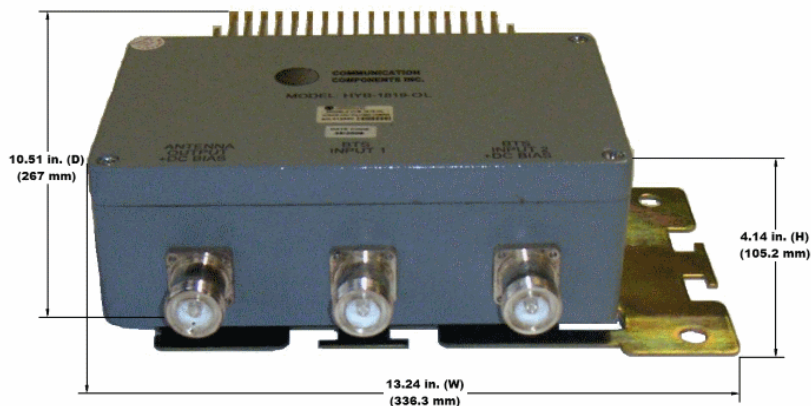
Impedance	50 ohms
Continuous Average Power	250 W max. (all ports)

Environmental

Operating Temperature	-40 °C to +65 °C
Enclosure	IP65 (Unit Body), IP68 (Connector)

Mechanical

Connectors	3 x 7-16 DIN female
Dimensions (body, connectors, load)(HxWxD)	3.575 x 10.25 x 10.51 in. (90.81 x 260.35 x 266.95 mm)
Dimensions (incl. connectors)(HxWxD)	4.14 x 13.24 x 10.51 in. (105.16 x 336.30 x 266.95 mm)
Weight with brackets	11.5 lbs max. (5.22 kg)
Mounting	Pole/Wall mounting bracket



Hybrid Combiner Outline Drawing



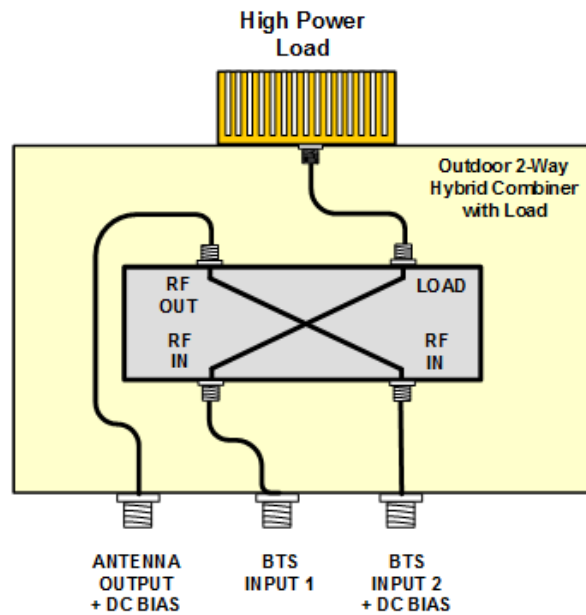
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Block Diagram



Hybrid Combiner Block Diagram



Filters & Combiners

ORDERING

PCS Hybrid Combiner

HYB-1819-OL

Parts & Accessories

HYB-1819-OL Outdoor PCS 2-Way Hybrid Combiner with Load



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STANDARDS &
CERTIFICATIONS

PCS Hybrid Combiner

HYB-1819-OL

Certifications

Federal Communication Commission (FCC) Part 15 Class B, CE, CSA US