

# ZHC Series

## Combiners



### ○ Features & Benefits

- C-UL Listed
- Rack Mountable - 1 EIA (1.75") Rack Space
- High Isolation
- -20 dB Test Port

The ZHC Series are professional quality, passive and active output combiners. These units are designed for use in headends to combine the outputs of multiple modulators and processors. The ZHC-12 has twelve (12) broadband input ports and one combined output port, while the ZHCA-16 and ZHCA-16c have sixteen (16) input ports and one combined amplified output port and are intended to be “zero loss” combiners. These combiners feature high isolation between ports due to an integrated directional coupler design. The input ports of the ZHC-12 and ZHCA-16 are broadband, accepting signals in the 54 to 450 MHz frequency range. The ZHCA-16c accepts signals in the 54-750 frequency range. The ZHCA-16 and ZHCA-16c employ a single push-pull CATV style hybrid module. The overall gain of the ZHCA-16 and ZHCA-16c is variable using a built-in manual gain control, accessible via a front panel control.

### ○ Specifications

RF	ZHC-12	ZHCA-16	ZHCA-16c
Number of Inputs:	12	16	16
Frequency Range MHz:	54-450	54-450	54-750
Input Level - Max dBmV:	NA	+57	+57
Output Level - Max dBmV:	NA	+48	+48
Cross Modulation dBc:	NA	-57	-57
Overall Unit Gain dB:	NA	0	0 to -3
Gain Control Range dB:	NA	9	9
Insertion Loss dB:	16	NA	NA
Isolation dB:	40	40	40
Flatness dB:	3	3	3
Impedance - All Ports ohm:	75	75	75
<b>General</b>			
Power Requirements			
Voltage VAC:	NA	117 ± 10%	117 ± 10%
Frequency Hz:	NA	60	60
Power W:	NA	10	10
Temperature Range °C:	NA	0 to +50	0 to +50
<b>Mechanical</b>			
Dimensions (WxHxD):	19.0 x 1.75 x 2.88 483 x 44 x 73	19.0 x 1.75 x 2.88 483 x 44 x 73	19.0 x 1.75 x 2.88 483 x 44 x 73
Weight lbs (kg):	2.0 (0.91)	3.0 (1.36)	3.0 (1.36)
<b>Connectors (Rear Panel)</b>			
RF Input & Output:	"F" Type Female	"F" Type Female	"F" Type Female
<b>Connectors (Front Panel)</b>			
Test Port:	"F" Type Female	"F" Type Female	"F" Type Female
<b>Controls (Front Panel)</b>			
Gain:	NA	Control	Control

Refer to product instruction manual for additional specification measurements and notes.

### ○ Ordering Information

Model	Description
ZHCA-16	Active Combiner 50-450 MHz, 16 Ports
ZHC-12	Passive Combiner 50-450 MHz, 12 Ports
ZHCA-16C-750	Active Combiner 50-750 MHz, 16 Ports