

# OCA Series

## Active Combiners



### ○ Features & Benefits

- Rack Mountable - 1 EIA (1.75") Rack Space
- -20 dB Test Port
- Single Push-Pull Hybrid Module Design for High Output with Low Distortion

The OCA Series are professional quality, amplified output combiners. These units are designed for use in headends to combine and amplify the outputs of multiple modulators and processors. The OCA Series employs radiation-proof passive components that provide excellent signal reproduction and years of reliable service. Two models are available, including: OCA-8b, 8 inputs; and OCA-12, 12 inputs.

The OCA Series features a single push-pull hybrid amplifier which supplies sufficient gain for driving a distribution system directly. The overall gain of the unit is variable using a built-in manual gain control, accessible via the front panel. The OCA Series provides high isolation between ports and net combining gain from each of the broadband inputs (50 to 450 MHz). A 20 dB test port is provided for signal monitoring without disrupting service.

### ○ Specifications

#### RF

- Number of Inputs: 8
- Frequency Range: 50-450 MHz
- Flatness - Relative to Slope:  $\pm 0.25$
- Output Level: +56 dBmV
- Overall Unit Gain: 22 dB
- Gain Control Range: 14 dB
- Cross Modulation: -57 dB
- Slope:  $\pm 0.75$  dB
- Test Port Level: -20 dB
- Impedance - All Ports: 75 ohm
- Input Return Loss: 16 dB
- Output Return Loss: 16 dB

#### General

- Power Requirements
  - Voltage: 117,  $\pm 10\%$  VAC
  - Frequency: 60 Hz
  - Power: 10 W
- Fuse: 3/8 A
- Temperature Range: 0 to +50 °C

#### Mechanical

- Dimensions (WxHxD):
  - 19.0 x 1.75 x 15.0 in.
  - 483 x 44 x 381 mm
- Weight: 6.0 lbs, 2.73 kg

#### Connectors (Rear Panel)

- RF Input: "F" Type, Female
- RF Outputs: "F" Type, Female

#### Connectors (Front Panel)

- Test Port: "F" Type, Female

#### Controls (Front Panel)

- Gain Control: Control

#### Indicators (Front Panel)

- Power ON: LED, Green

### ○ Ordering Information

Model	Description
OCA-8b	Active Combiner 50-450 MHz, 8 Ports
OCA-12	Active Combiner 50-450 MHz, 12 Ports