

OC SERIES

PASSIVE COMBINERS



**BLONDER
TONGUE**
LABORATORIES INC.



The OC Series are professional quality, passive output combiners. These units are designed for use in headends to combine the outputs of multiple modulators and processors. The OC Series employs radiation-proof passive components that provide excellent reliability and performance. Five models are available for combining 8, 12, 16, 24 or 32 inputs. The OC Series features high isolation between ports and a low net combining loss from each of the broadband inputs (5 to 1000 MHz). A 20 dB test port is provided for signal monitoring without disrupting service.

○ Features & Benefits

- -20 dB Test Port
- High Isolation, Low Net Combining Loss
- Rack Mountable - 1 EIA (1.75") Rack Space, (OC-16 is 2 Rack Spaces 3.5")

○ Specifications

RF	OC-8d	OC-12D	OC-16	OC-24	OC-32
Number of Inputs:	8	12	16	24	32
Frequency Range:	5-1000	5-1000	5-1000	50-1000	50-1000
Flatness - Relative to Slope:	0.4	±0.20	0.4		
Slope:	2.75	1.50	2.5		
Insertion Loss - Individual Port					
40 to 450 MHz:	11.5	18	24	18	18
450 to 1000 MHz:	13	18	26	20	20
Isolation - Adjacent Ports					
40 to 450 MHz:	25	38	40	30	30
450 to 1000 MHz:	25	38	36	25	25
Isolation - Non-Adjacent Ports					
40 to 1000 MHz:	40	65	62	>40	>40
Test Port Level:	-20	-20	-20	-20	-20
Impedance - All Ports:	75	75	75	75	75
Input Return Loss					
40 to 450 MHz:	20	20	18	20	20
450 to 1000 MHz:	19	20	16/14	18	18
Output Return Loss					
40 to 450 MHz:	20	16	18	18	18
450 to 1000 MHz:	19	16	15	16	16

Mechanical

Dimensions (WxHxD):

19.0 x 1.75 x 15.25 in. 483 x 44 x 387 mm	19.0 x 3.5 x 15.25 in. 483 x 89 x 387 mm	19.0 x 1.75 x 8.0 in. 483 x 44 x 203 mm
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Weight:

6.5 lbs. 2.95 kgs.	6.95 lbs. 3.18 kgs.	9.0 lbs. 4.77 kgs.	6.95 lbs. 3.16 kgs.	6.95 lbs. 3.16 kgs.
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Connectors (Rear Panel)

RF Input & Outputs:

"F" type, female

Connectors (Front Panel)

Test Port:

"F" type, female

○ Ordering Information

Model	Stock No.	Description
OC-8d	5957	Passive Combiner 5-1000 MHz, 8 Ports
OC-12D	5953	Passive Combiner 5-1000 MHz, 12 Ports
OC-16	5950	Passive Combiner 5-1000 MHz, 16 Ports, High Isolation, Front/Rear Test Ports
OC-24E	5794	Passive Combiner 5-1000 MHz, 24 Ports, Front Test Ports
OC-32E	5795	Passive Combiner 5-1000 MHz, 32 Ports, Front Test Ports