



INSTRUCTION MANUAL

OC-8d

Headend Combiner (Passive)

Stock No. 5957

Description

The Blonder Tongue OC-8d is a 5-1000 MHz passive output combiner with eight broadband input ports. Used in headends to combine up to eight modulators and/or processors, it is manufactured with radiation-proof passives.

The OC-8d features high isolation between ports and low net combining loss from each of the eight inputs and the thru-line input. A -20 dB test jack, on the front panel, allows the operator to adjust headend output levels without disconnecting any equipment.

Two or more units can be combined to provide more than eight channels in larger systems. The OC-8d is a compact, 1.75" high unit designed for mounting in a standard 19" EIA rack.

Features

- High Isolation Between Ports
- Built-in Output Test Jack Permits Testing with Uninterrupted Service
- Can Be Combined For Use in Larger Systems

Specifications

Electrical

Frequency Range: 5-1000 MHz
Insertion Loss
5- <40MHz: 10.75 dB
40-550 MHz: 11.5 dB
>550-750 MHz: 12.0 dB
>750 - 860 MHz: 12.5 dB
>860 - 1000 MHz: 13.25 dB
Tilt: 2.75 dB (5-1000 MHz)
Flatness (Ref. to Tilt)
5-550 MHz: ± 0.25 dB
>550 to 1000 MHz: ± 0.4 dB

Isolation Between any Combination of
Input Ports
(1 & 2 or 3 & 4 or 5 & 6 or 7 & 8)
5 to 1000 MHz: 25 dB
Isolation Between any Combination of
Input Ports
(1 & 3 or 1 & 5 or 1 & 7 etc.)
5 to 1000 MHz: 40 dB
Test Jack: -20 dB
Impedance: 75 Ohm

Mechanical

Dimensions (W x H x D): 19 x 1.75 x 15.25
in.
Shipping Weight: 6.5 lbs.
Signal Connections "F" Type
Input: 8
Output: 1
Test: 1 (Front Panel)

Testing

The performance of the OC-8d can be checked at the -20 dB test jack (located on the front panel) without interrupting service. A standard 75 Ohm "F" type connector is used.

651142200J

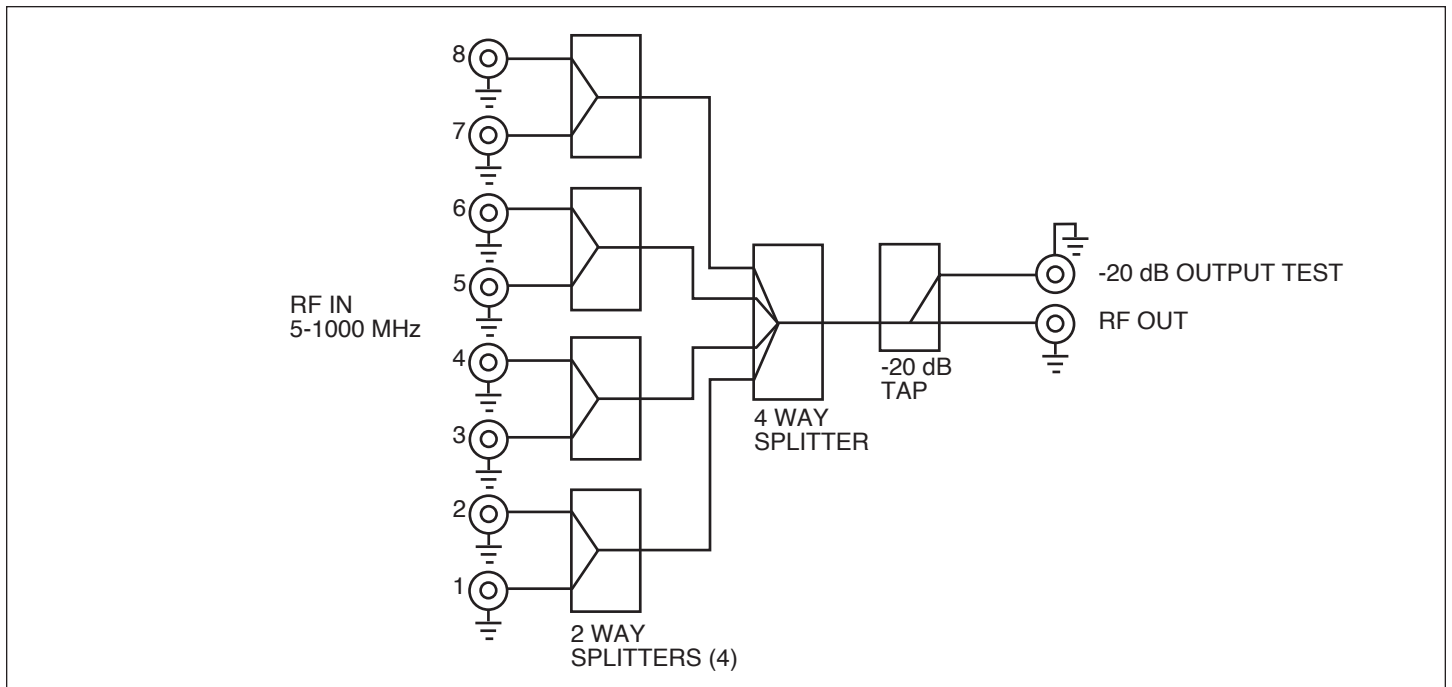


Figure 1 - Block Diagram

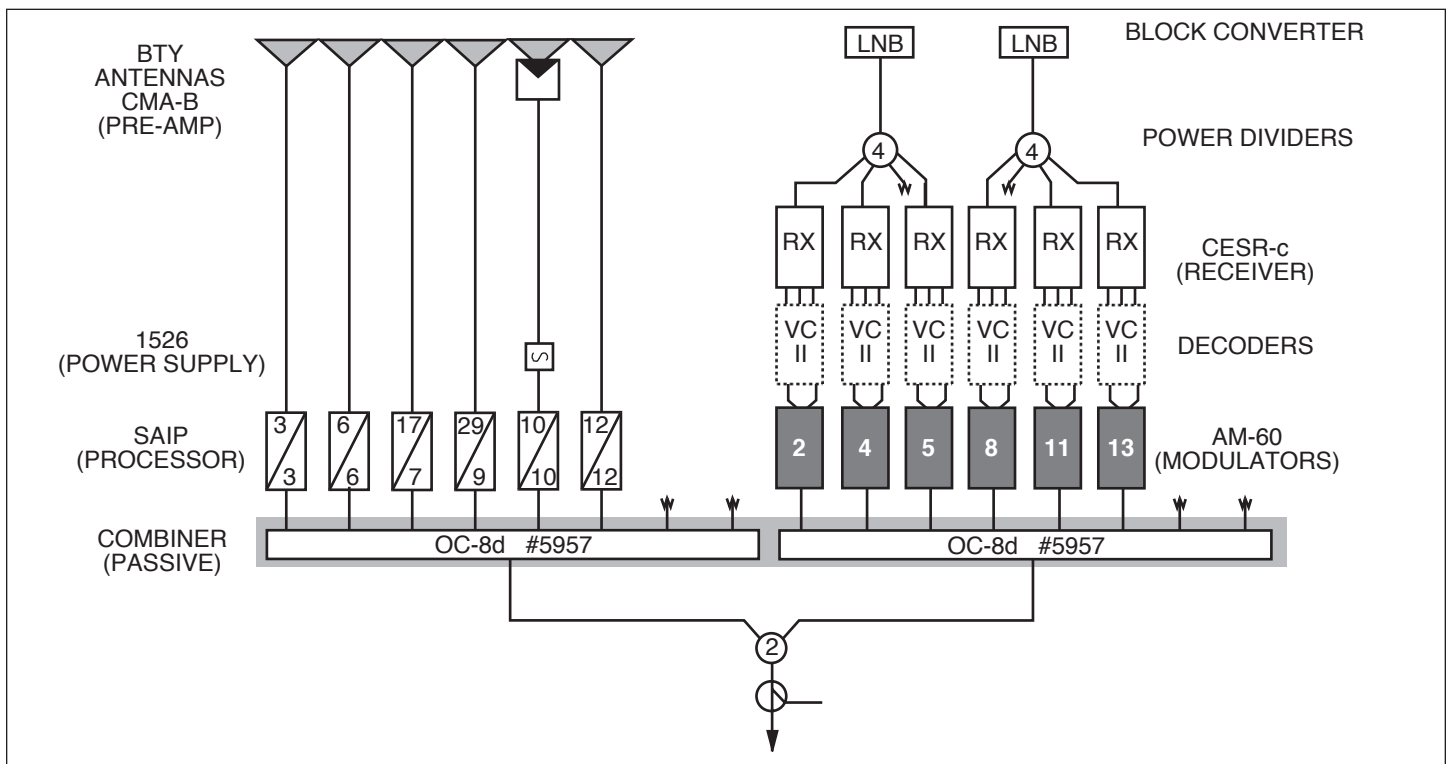


Figure 2 - Typical Application

Service

Each OC-8d is built to give long dependable service; however, should it develop trouble, pack it carefully with a note describing the problem and mail postage paid to the attention to the **Service Department** at Blonder Tongue Laboratories, Inc.



**BLONDER
TONGUE**
LABORATORIES, INC.

One Jake Brown Road
Old Bridge, NJ 08857-1000 USA
(800) 523-6049 • (732) 679-4000 • FAX: (732) 679-4353
www.blondertongue.com