

### **INSTRUCTION MANUAL**

# **HPC Series**

## **Headend Passive Combiners**

Model	Stock No.	Description
HPC-8	5791	8-port Headend Passive Combiner, 8.0-inch deep, 5-1000 MHz
HPC-12	5792	12-port Headend Passive Combiner, 8.0-inch deep, 5-1000 MHz
HPC-12S	5792S	12-port Headend Passive Combiner, 2.9-inch deep, 5-1000 MHz
HPC-24	5790	24-port Headend Passive Combiner, 8.0-inch deep, 5-1000 MHz
HPC-24S	5790S	24-port Headend Passive Combiner, 2.9-inch deep, 5-1000 MHz
HPC-32	5796	32-port Headend Passive Combiner, 8.0-inch deep, 5-1000 MHz

Status	Date	Document No.	Issue No.	Author
Active	October 9, 2009	651224300A	1	KK

We recommend that you write the following information in the spaces provided below.

Purchase Location Name:	
Purchase Location Telephone Number:	
HPC Series Serial Number:	

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Correspondence regarding this publication should be addressed directly to:

Blonder Tongue Laboratories, Inc.

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Old Bridge, NJ 08857

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A Return Material Authorization (RMA) Number is required on all products returned to Blonder Tongue, regardless if the product is being returned for repair or credit. Before returning product, please contact the Blonder Tongue Service Department at 1-800-523-6049, Ext. 4256 or visit our website: www.blondertongue.com for further information.

#### **Product Summary**

#### **Revision History & Reason**

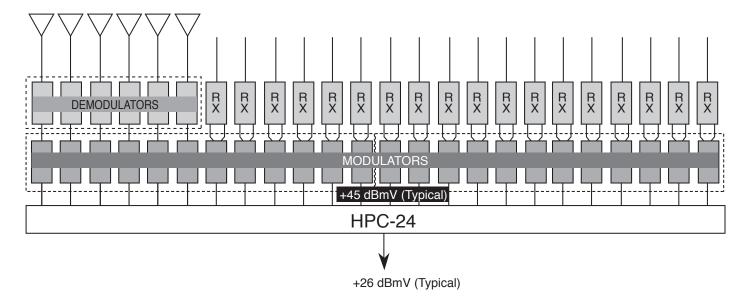
This is the first issue of the Instruction Manual.

#### **Product Series, Application & Description**

HPC series consists of 5-1000 MHz passive RF combiners designed for use in a headend to combine the output of up to 32 single-channel devices such as modulators and processors. HPC is available in 8-, 12-, 24-, or 32-port models.

All HPC models feature a compact design, high isolation between ports, low net combining loss, and RFI shielding for minimized egress/ingress interference. A front-panel -20 dB test port (75-ohm "F" type connector) allows testing of the unit's output without interrupting the service.

#### **HPC-24 Application**



## Performance Specification (Typical)

	Frequency (Mhz)	HPC-8	HPC-12 & 12S	HPC-24& 24S	HPC-32
Max. Insertion Loss (dB)	5-40	11.2	14.3	17.2	17.2
	40-450	11.2	14.3	17.5	17.5
	450-750	12	15	19	19
	750-1000	12.5	16.5	20	20
Min. Isolation (dB)	5-40	24	30	30	30
	40-450	27	32	32	32
	450-750	27	30	30	30
	750-1000	23	28	28	28
Test Port (dB)	5-40	20+/-0.5	20+/-0.5	20+/-0.5	20+/-0.5
	40-450	20+/-0.5	20+/-0.5	20+/-0.5	20+/-0.5
	450-750	20+/-0.5	20+/-0.5	20+/-0.5	20+/-0.5
	750-1000	20+/-0.5	20+/-0.5	20+/-0.5	20+/-0.5
Input Return loss (dB)	5-40	18	20	20	20
	40-450	22	20	20	20
	450-750	22	20	20	20
	750-1000	18	18	18	18
Output Return loss	5-40	18	20	20	20
	40-450	22	20	20	20
	450-750	22	18	18	18
	750-1000	18	18	18	18
Impedance	5-1000	75 Ohms	75 Ohms	75 Ohms	75 Ohms

## **General Specification**

Dimensions (W x D x H): HPC-xx HPC-xxS	19.0 x 8.0 x 1.75 inches (483 x 203 x 44 mm) 19.0 x 2.9 x 1.75 inches (483 x 74 x 44 mm)
Shipping Weight: HPC-xx HPC-xxS	2.3 lbs (1.04 kg) 1.9 lbs (0.86 kg)
Connectors Inputs: Output: Test Port:	"F" Type Female "F" Type Female "F" Type Female

## **Limited Warranty**

Blonder Tongue Laboratories, Inc. (BT) will at its sole option, either repair or replace (with a new or factory reconditioned product, as BT may determine) any product manufactured by BT which proves to be defective in materials or workmanship or fails to meet the specifications which are in effect on the date of shipment or such other specifications as may have been expressly agreed upon in writing (i) for a period of one (1) year from the date of original purchase (or such shorter period of time as may be set forth in the license agreement specific to the particular software being licensed), with respect to iCentral<sup>TM</sup> (hardware and software) and all other software products (including embedded software) licensed from BT, (ii) ) for a period of one (1) year from the date of original purchase, with respect to all MegaPort<sup>TM</sup>, IPTV products, and fiber optics receivers, transmitters, couplers and integrated receiver/distribution amplifiers (including TRAILBLAZER<sup>TM</sup>, RETRO-LINX<sup>TM</sup> and TWIN STAR<sup>TM</sup> products) as well as for DigiCipher ® satellite receivers, and (iii) for a period of three (3) years from the date of original purchase, with respect to all other BT products. Notwithstanding the foregoing, in some cases, the warranty on certain proprietary sub-assembly modules manufactured by third-party vendors and contained in BT products and on certain private—label products manufactured by third-parties for resale by BT are of shorter duration or otherwise more limited than the standard BT limited warranty. In such cases, BT's warranty with respect to such third-party proprietary sub-assembly modules and private-label products will be limited to the duration and other terms of such third-party vendor's warranty. In addition, certain products, that are not manufactured but are resold by BT, carry the original OEM warranty for such products. The limited warranty set forth in this paragraph does not apply to any product sold by BT, which at the time of sale constituted a Refurbished/Closeout Product.

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