



BLONDER TONGUE Headend Passive Combiners Instruction Manual

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**BLONDER
TONGUE**
LABORATORIES, INC.

INSTRUCTION MANUAL

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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

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

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

The information contained herein is subject to change without notice. Revisions may be issued to advise of such changes and/or additions.

Document Number: USA 651224300A

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This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Reverse engineering or disassembly is prohibited.

Returning Product for Repair (or Credit)

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 the product, please contact the Blonder Tongue Service

Product Summary

Revision History & Reason

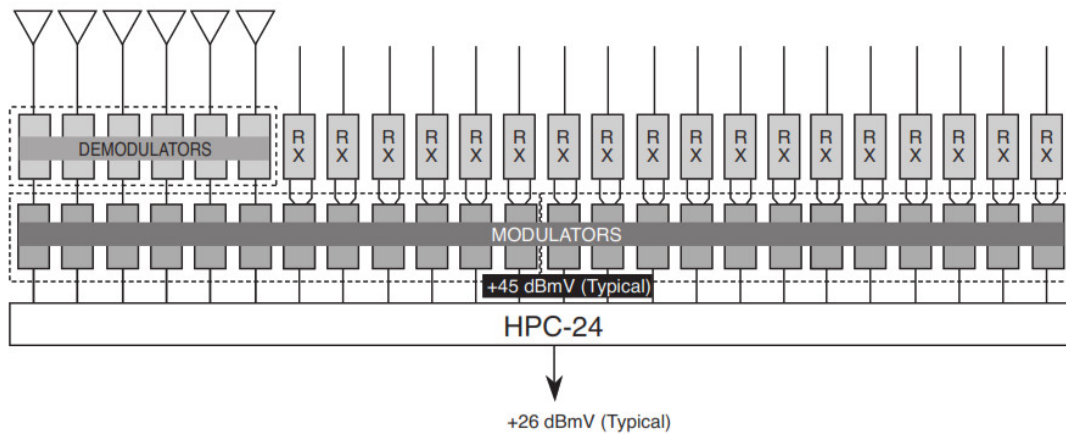
This is the first issue of the Instruction Manual.

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™ (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™, IPTV products, and fiber optics receivers, transmitters, couplers and integrated receiver/distribution amplifiers (including TRAILBLAZER™, RETRO-LINX™, and TWIN STAR™ 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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This warranty does not cover damage resulting from (i) use or installation other than in strict accordance with the manufacturer's written instructions, (ii) disassembly or repair by someone other than the manufacturer or a manufacturer-authorized repair center, (iii) misuse, misapplication or abuse, (iv) alteration, (v) lack of reasonable care or (vi) wind, ice, snow, rain, lightning, or any other weather conditions or acts of God.

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Documents / Resources



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BLONDER TONGUE, HPC Series, Headend Passive Combiners, HPC-8, HPC-12, HPC-12S, HPC-24, HPC-24S, HPC-32