PCB 190

PASSIVE 8 - WAY COMBINER
Forward path

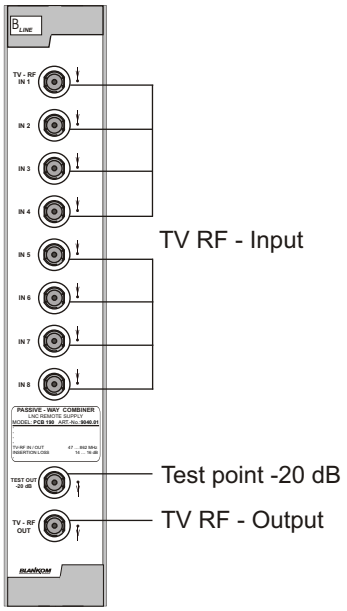

Fig. 01

PRODUCT VARIANTS

PCB 190	9040.01	Passive combiner	[45 … 862 MHz]

GENERAL

The passive 8 - way combiner is a module of the head end system B - Line, which is conceived as a complete system for middle sized distribution networks .
The PCB 190 combiner can summarize up to 8 channels onto one output.
The module is passive and has a -20 dB test point for monitoring the attached channel.

FUNCTION DESCRIPTION

The circuit concept is based upon broadband transformer splitters.
This ensures small losses and the necessary uncoupling of the inputs.
To measure the output level, the PCB 190 is equipped with a uncoupled measuring socket, which tap loss is 20 dB.
Before usage the not occupied RF inputs have to be equipped with a 75 Ohm terminal resistance.
A closing of the test point is not necessary.
All RF connections are “F” type connectors.

Additional information:
Block diagram (Fig. 02)
Through loss (Fig. 03)

BLOCK DIAGRAM

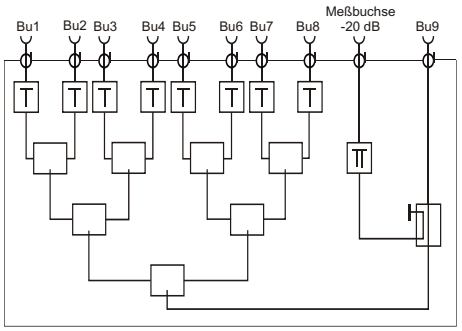

Fig. 02

THROUGH LOSS

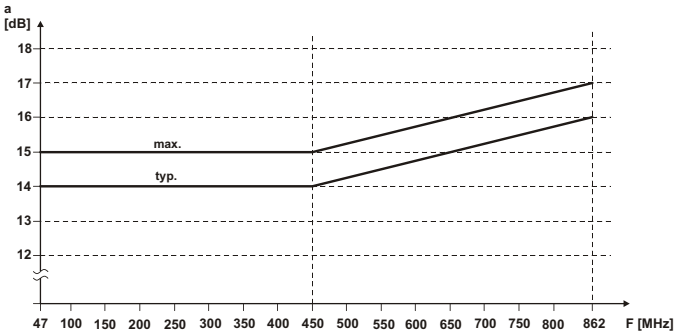

Fig. 03

TECHNICAL DATA

RF parameter

Frequency range	45 ... 862 MHz
Connector	F female
Impedance	75
Through loss	
45 … 450 MHz	15 dB
450 … 862 MHz	17 dB
Isolation of the inputs	20 dB
Tap loss at test point	20 dB, 1 dB

Environmental conditions

Temperature range	-10 … +55 °C
Relative humidity	60 % (non condensing)
Mounting method	vertical
Mounting location	squirting and dripping water protected

Physical information

Dimensions (l x w x h)	
without 19” - adapter	50 x 276 x 148 mm
with 19” - adapter	50 x 301 x 148 mm
Weight	1.147 g

Delivery contents

1 x Key

SECURITY AND OPERATING INSTRUCTIONS

STOP When assembling, starting-up and adjusting the modules, it is necessary to consider the system specific references in the manual instruction!

⚠ The modules may only be installed and started up by authorized technical personnel!

⚠ When assembling the modules into the receiving points, the adherence of the EMV regulations is to be secured!

⚠ The assembly and wiring have to be done without voltage!

⚠ All active modules may only be operated with the head end controller HCB 100 or bus extender BEB 100!

⚠ The main voltage for all power supply units is 230 V, 50 Hz.

⚠ With all work the defaults of the DIN EN 50083 have to be considered!
Especially the safety relevant execution of the DIN EN 50083/1 is necessary!

Part - No.: 9040.01

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