

Pic. 01

DEVICE VARIANTS

FAR 221	9057.02	FM - Pre-amplifier	[87,5 ...108 MHz]
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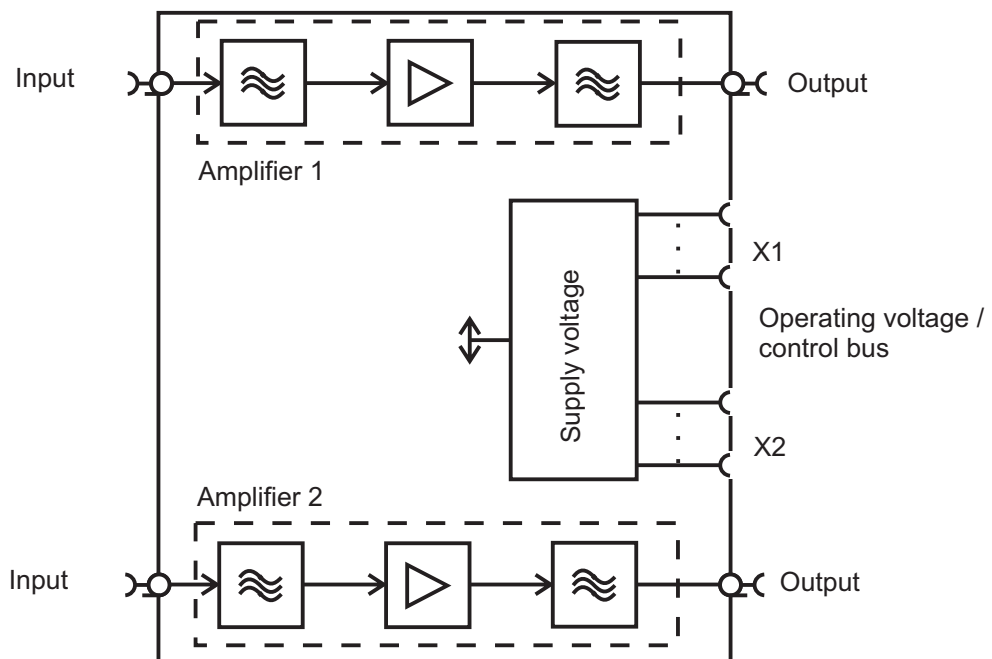
GENERAL

The FAR 221 is a FM extension module of the headend system B-LINE and can also be used in the headend system C-LINE.
 The B-LINE system is conceived as a complete system for middle sized distribution networks, the C-LINE system for smaller sized distribution networks.
 The FAR 221 contains two independent FM pre-amplifier.
 The pre-amplifier should only be used with unfavorable reception conditions.

FUNCTION DESCRIPTION

The twin FM pre-amplifier contains per amplifier a FM band-pass and a two-stage, low noise, large signal stable RF amplifier. At the output a second FM band-pass makes the impedance adaption and the signal filtration possible (see fig. 02).

BLOCK DIAGRAM



Pic. 02

TECHNICAL DATA

RF Parameter (per amplifier)

Frequency range	87.5 ... 108 MHz
Noise figure	2.5 dB
Max. amplification	20 dB
Max. output level ($IMA_{\text{HIB}} = 66 \text{ dB}$)	109 dB μ V
Output impedance	75
Connector	F socket

Operating parameter

Voltage/ current	12 V ($\pm 0.2 \text{ V}$) / 200 mA
Ripple of the supply voltage	10 mV $_{\text{pp}}$

Environmental conditions

Temperature range	-10 ... +55 °C
Relative humidity	80 % (non condensing)
Mounting method	vertical
Mounting location	squirting and dripping water protected

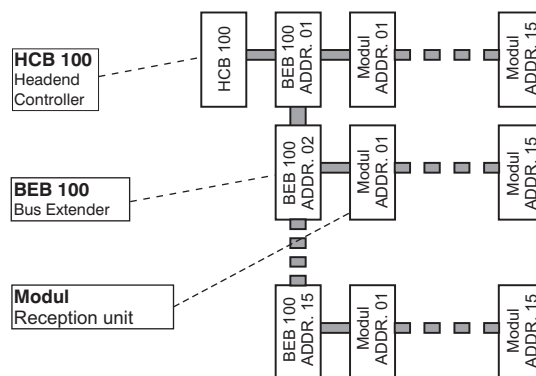
Physical information

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	1.120 g

Delivery contents

- 1 x Bus cable
- 2 x F connecting cable 140 mm

HEADEND BUS STRUCTURE



The number of the possible module connections (00 ... 15) to a BEB 100 depends on the total power consumption of this line!

Pic. 03

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 EMC regulations is to be secured!
- ⚠ The assembly and wiring have to be done without voltage!
- ⚠ All active modules may only be operated with the Headend Controller HCB 100 or Bus Extender BEB 100!
- ⚠ The supply voltage and operating voltage for all modules operated with direct current has to be in accordance to the technical specifications of the respective module (see respective device manual)!
- ⚠ With all work the defaults of the DIN EN 50083 have to be considered!

Options and other TV standards available upon request!

Changes due to technical progress possible.

Part N°: 9057.02

BLANKOM Antennentechnik GmbH

Hermann - Petersilge - Str. 1 07422 Bad Blankenburg Germany Phone +49 (0) 36741/ 60-0 Fax +49 (0) 36741/ 60-100