

FAB 121

FM AMPLIFIER

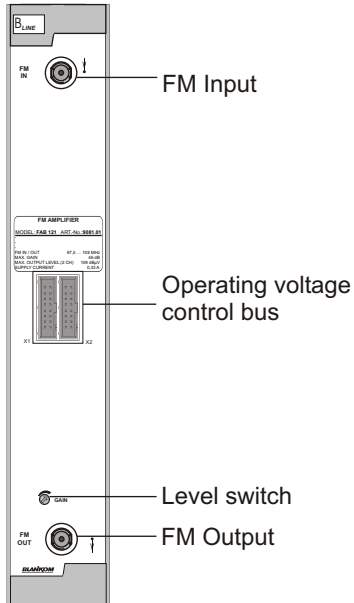


Fig. 01

VARIANTS

FAB 121 9081.01 FM amplifier [87,5 ... 108 MHz]

GENERAL

The FAB 121 is a module of the head end system B - Line, which is conceived as a complete system for middle sized distribution networks.
The FAB 121 contains a high amplifying, low distorting FM amplifier.
The amplifier is used in cable systems without channel selective FM processing.

FUNCTION DESCRIPTION

The FM band-passes on the in- and output provide the necessary selection.
The signal amplification is done through the amplifier stages, which are situated in-between.
A level attenuator makes it possible to adjust the amplifier.
It is located so that its level range neither considerably influences the noise figure nor the max. allowed output level (see fig. 02).

BLOCK DIAGRAM

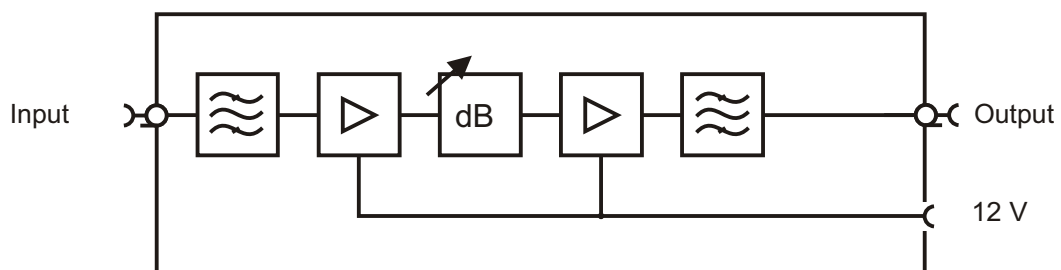


Fig. 02

TECHNICAL DATA

RF Parameter

Frequency range	87,5 ... 108 MHz
Noise figure	2,5 dB
Max. amplification	46 dB
Level adjusting range	-15 dB
Max. output level (IMA _{HLB} = 66 dB)	113 dBμV
Output impedance	75
Connector	F socket

Operating parameter

Voltage / current	12 V (±0,2 V) / 330 mA
Ripple of the supply voltage	10 mV _{pp}

Environmental conditions

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

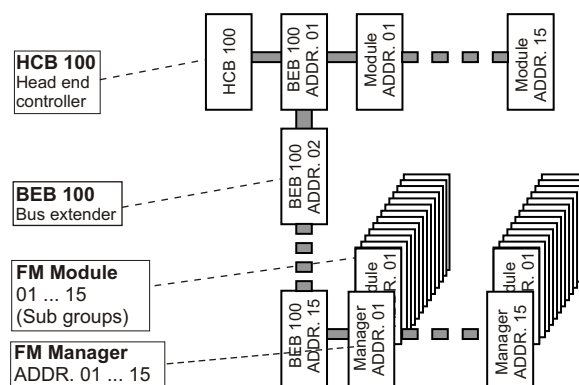
Physical information

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	1.102 g

Delivery contents

1 x BUS connector

HEAD END BUS STRUCTURE WITH FM MANAGER



The number of the possible FM manager connections to a BEB 100 is 15 (ADDR. 01 ... 15). The ADDR 00 is reserved for special functions. Every FM manager can operate up to 15 FM modules.

Fig. 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 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!

