

PSB 100

PASSIVE 8 - WAY SPLITTER
SAT IF, LNC power supply

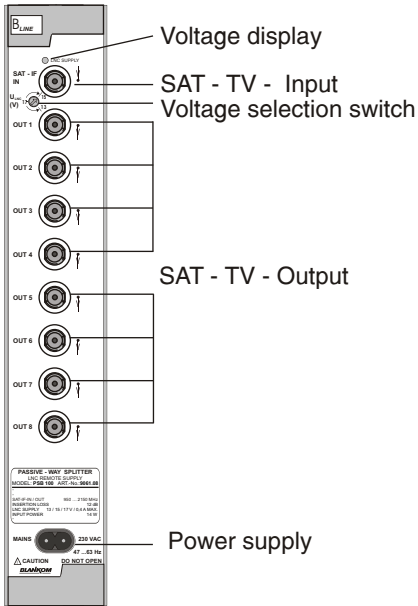


Fig. 01

PRODUCT VARIANTS

PSB 100 9061.08 SAT IF Splitter [950 ... 2150 MHz] with LNC remote power supply

GENERAL

The passive SAT - IF - splitter PSB 100 is a module of the head end system B - Line, which is conceived as a complete system for middle sized distribution networks.

The module makes the small loss, uncoupled splitting of a SAT IF signal onto 8 outputs possible.

The remote supply of the outside unit with different DC voltages is possible because of the internal power supply.

FUNCTION DESCRIPTION

The module contains a passive 8 - way splitter in micro strip technology and a remote supply power pack.

The special distribution structure causes an even power partitioning onto all 8 outputs and at the same time takes care of the necessary mutual uncoupling.

All outputs are capacitive separated and because of that reason DC voltage free.

The integrated power supply unit secures the DC voltage supply of the outside unit (LNC) via the coaxial cable.

Depending on the used LNC - type and / or polarization, it is possible to adjust voltage levels from 13 V, 15 V or 17 V with the installed switch.

Additional information: Block diagram

(Fig. 02)

Adjustment of the LNC supply voltage

(Fig. 03)

BLOCK DIAGRAM

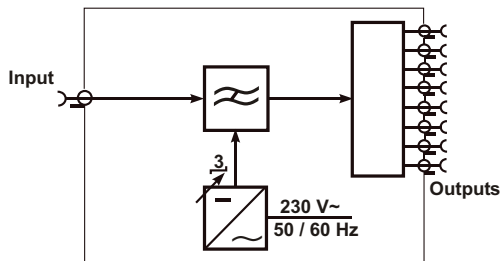


Fig. 02

ADJUSTMENT OF THE LNC SUPPLY VOLTAGE

Please avoid to turn the voltage selection switch over one of the two end positions!

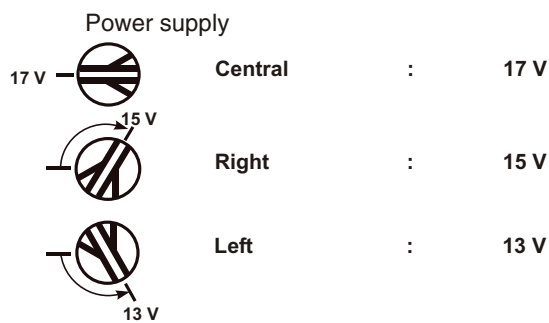


Fig. 03

Notice

The connection of the main voltage should generally be done with load!

Before connecting the PSB 100 to the 230 V main line the necessary LNC supply voltage (13 V, 15 V or 17 V) has to be adjusted with the voltage selection switch.

An internal protection circuit will turn off the LNC supply voltage if there is a no-load operation or a net over voltage.

The supply current of the LNC will be, in case of a short circuit, limited to ca. 500 mA.

TECHNICAL DATA

SAT IF

Frequency range	950 ... 2150 MHz
Connector	F socket
Impedance	75
Through loss	13 dB
Isolation of the outputs	20 dB

Power supply unit

Main voltage	230 V , (+10 % / -20 %)
Power socket	Built in connector according to EN 60320 - 1 / C8 (IEC 320 - C8)
Main frequency	50 / 60 Hz
Power consumption	max. 14 W
DC voltage (switchable)	13 V / 15 V / 17 V
Current consumption	max. 300 mA
Current limit	500 mA
Internal device fuse	G 5 x 20, T100 / 250 (IEC 127)
Protection class	II after DIN VDE 0860
Protective system	IP 20
Radio noise	after DIN VDE 0871 (curve B)

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	1.485 g

Delivery contents

1 x Power cable

SECURITY AND OPERATING INSTRUCTIONS

 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!

