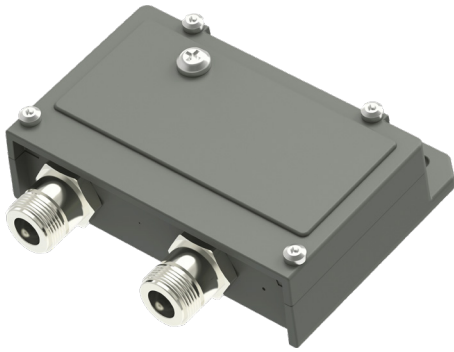


Gain adjustable Line Amplifiers

Line amplifiers,
Slope 18-25 dB , Flat 24 dB gain

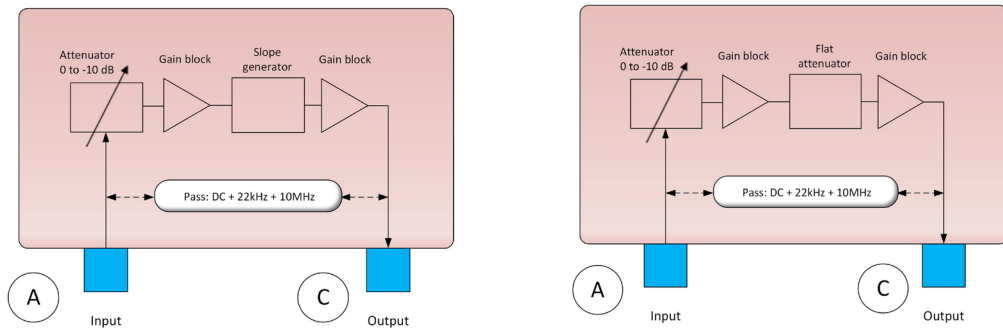


Our new gain adjustable Low power Line Amplifiers have very high IP3 and P1dB to allow to be installed direct after or close to the LNB.

Available with F-, N- or SMA-connectors. DC, 22 kHz and 10 MHz bypass, is standard. Options include Separate DC power input via connector (F, N or SMA) or via cable (pigtail).

Features

- Gain adjustable
- High IP3 and P1dB
- 22 kHz and 10 MHz bypass
- Compact and light weight
- IP67 classed
- Wide operating temperature range
- Equivalent with previous version, ILA 18-24
- Positive slope model to compensate cable tilt



TECHNICAL SPECIFICATIONS

MODEL:	ILA 18-25 dB, slope	ILA 24 dB, flat
Gain typ.	18 dB @ 950 MHz, 25 dB @ 2150 MHz, adjustable -10 dB	24 dB @ 950 - 2150 MHz, adjustable -10 dB
Gain flatness 30 MHz		±0.2 dB max.
Gain flatness Full band	Slope 7 dB typ.	±1dB max.
Gain adjustment	Use a Philips nr 2 screwdriver to remove the cover screw and use a 2mm flat screwdriver to adjust the gain	
Frequency range	950-2150 MHz	
Bypass Standard	10 MHz and 22 kHz (22 kHz n/a with DC block IN or OUT)	
Output P1dB	+16 dBm typ.	
Output IP3	+32 dBm typ.	
Input IP3	min. +7 dBm @ max. gain, min. +18dBm @ min. gain	
Noise Figure / Noise Temperature	max. 8 dB / 1540 K @ spec. max. gain, max. 18dB / 18008 K @ spec. min. gain.	
Return loss L-Band In/Out	N- and SMA-connector: min. 10dB, typ 15 dB, with F connector min. 8dB, typ. 13 dB	
Connectors	F-type 75Ω / N-type 50Ω / SMA-type 50Ω	
DC Input	+12 to +26V, 85 mA max., DC bypass max. 1A	
Power Consumption	70 mA @ 12 V, 40 mA @ 26 V typ.	
Material & Finish	Die-cast aluminium, Powder coated	
Temperature Range	-40 to +80°C	
Ingress Protection Code	IP 67	
Dimensions	96 x 28 x 89 mm (N connectors) (for drawing, see www.smw.se)	
Weight	208 g (F & SMA), 250 g (N)	
Option	Separate DC input (via F / N / SMA-connector, or cable) with integrated DC-block(s)	

Rev.10-20-2D

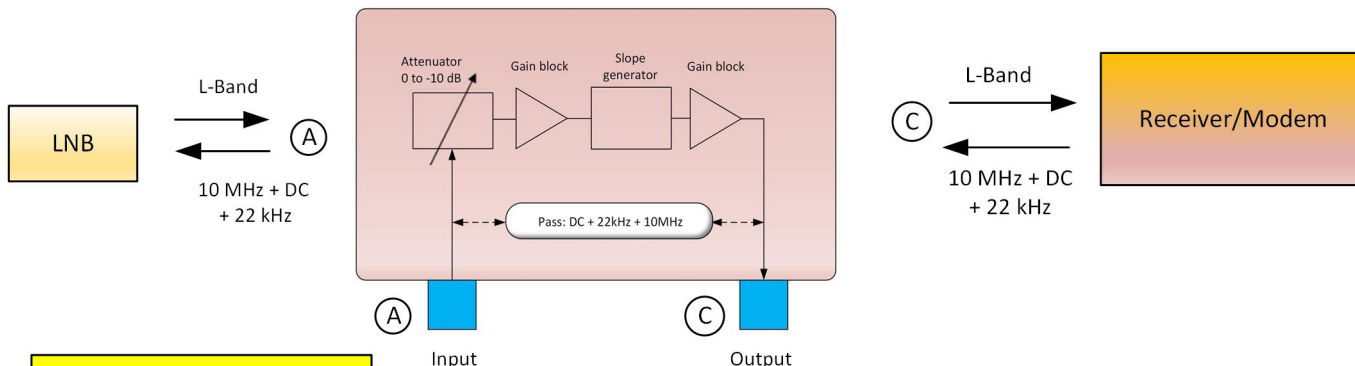
Above parameters are generic product family values. For part number specific min./max. values, please consult us.

Specifications are subject to change without notice. Products from Swedish Microwave AB are made for commercial use.

Gain adjustable Line Amplifiers examples

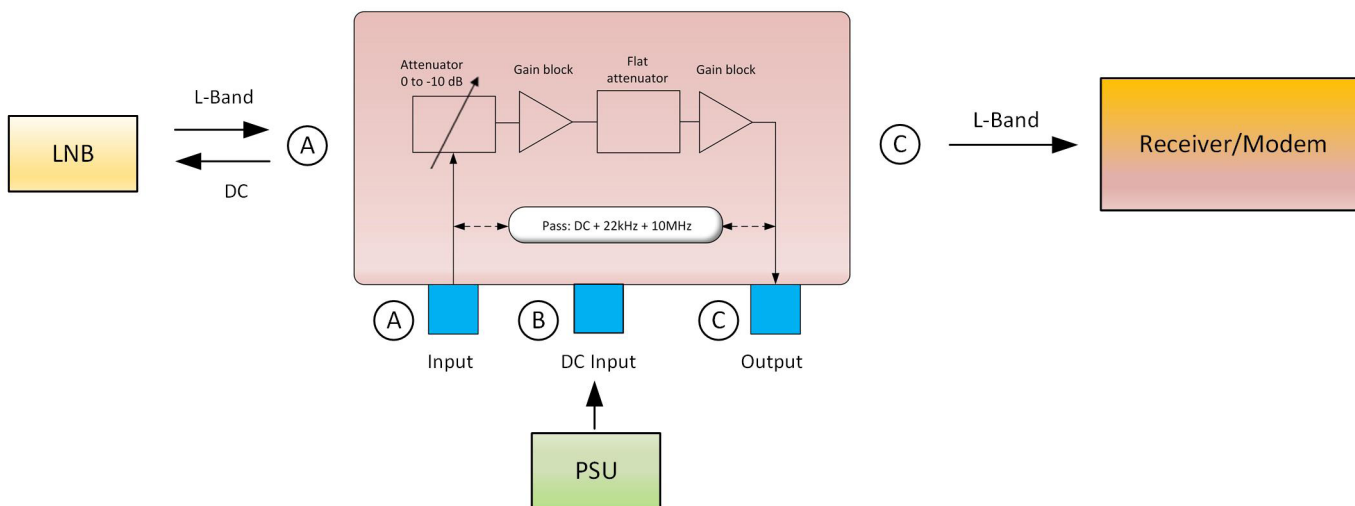


P/N LILA-?X?S-XXXX-02 (Slope 18-25 dB gain)



NOTE! High IP3 allows the ILA to be installed direct after or close to LNB for best performance

P/N LILA-??F-XXXX-02 (Flat 24 dB gain & Sep. DC input)



Part number designation for the Adjustable ILA

Model	Input connector A	Separate DC input B	Output connector C	Type	DC block A	DC block C	Future use	Future use	Version
LILA							X	X	02

A. Input conn.		B. DC Input		C. Output conn.		Type. Flat or Slope		A & C. DC block	
0	F	X	No	0	F	F	Flat 24 dB gain (adjust 0 to -10 dB)	X	No block
5	N	0	F	5	N	S	Slope 18-25 dB (adjust. 0 to -10 dB)	1	DC blocked
8	SMA	5	N	8	SMA				
		8	SMA						
		9	Pigtail						

Example: Adjustable Line Amplifier with Slope & N connectors + sep. DC input (pigtail) and DC block at Output = LILA-595S-X1XX-02

Rev.10-20-2D

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