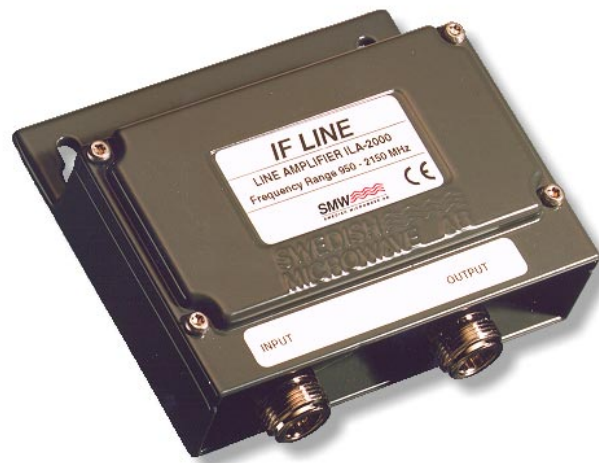


SMW ILA



Professional Line Amplifiers with N- or F-connectors

Swedish Microwave AB offers a wide range of Line Amplifiers. All specified models are equalized to compensate the cable attenuation. But we can also offer customized units by request e.g. special gain and 10 MHz bypass. All models can be supplied either with F- or N-connectors and with or without separate DC power inserter.

All units are individually hand tuned to get the very best performance available for each unit. Quality and long term reliability is also essential.

Swedish Microwave was founded 1986 and, within Europe, is the oldest manufacturer of LNBS. In the standard product range we have DRO-LNBS, PLL-LNBS, LNAs, Block Downconverters (BDC), Up- & Down Converters, Quattro LNBS, Twin LNBS, Ortho mode transducers (OMT), Line Amplifiers and Feed horns.

Swedish Microwave is today one of the leading manufacturers of microwave components needed for satellite receiving equipment and other industrial products.

Specification SMW ILA

SMW	ILA 17-20 dB	ILA 10-15 dB	ILA 7-17 dB	ILA 5-10 dB
Frequency range	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz
VSWR input typ	1.9:1	1.9:1	1.9:1	1.9:1
VSWR output typ	1.9:1	1.9:1	1.9:1	1.9:1
Gain @ 950 MHz	17 dB	10 dB	7 dB	5 dB
Gain @ 2150 MHz	20 dB	15 dB	17 dB	10 dB
Gain variation within 30 MHz	+/- 0.2 dB	+/- 0.2 dB	+/- 0.3 dB	+/- 0.2 dB
1 dB gain compression point	+3 dBm	+3 dBm	+3 dBm	+3 dBm
Noise figure	5.0 dB typ*	15.0 dB typ*	18.0 dB typ*	15.0 dB typ*
Connectors(water proof)	F-type 75 ohm or N-type 50 ohm	F-type 75 ohm or N-type 50 ohm	F-type 75 ohm or N-type 50 ohm	F-type 75 ohm or N-type 50 ohm
DC power (DC by pass to the LNB)	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt
Current consumption	35 mA max	35 mA max	35 mA max	35 mA max
Material	Diecast aluminium	Diecast aluminium	Diecast aluminium	Diecast aluminium
Finish	Powder coat	Powder coat	Powder coat	Powder coat
Temperature range	-30 to +60° C	-30 to +60° C	-30 to +60° C	-30 to +60° C
Weight	300 g (F) 340 g (N)	300 g (F) 340 g (N)	300 g (F) 340 g (N)	300 g (F) 340 g (N)

SMW	ILA 0-8 dB	ILA 14-18 dB	ILA 16-18 dB	ILA 18-24 dB High power +16 dBm
Frequency range	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz	950 - 2150 MHz
VSWR input typ	1.9:1	1.9:1	1.9:1	1.9:1
VSWR output typ	1.9:1	1.9:1	1.9:1	1.9:1
Gain @ 950 MHz	0 dB	14 dB	16 dB	18 dB
Gain @ 2150 MHz	8 dB	18 dB	18 dB	24 dB
Gain variation within 30 MHz	+/- 0.3 dB	+/- 0.2 dB	+/- 0.2 dB	+/- 0.2 dB
1 dB gain compression point	+3 dBm	+3 dBm	+3 dBm	+16 dBm
Noise figure	20.0 dB typ*	11.0 dB typ*	9.0 dB typ*	16.0 dB typ*
Connectors(water proof)	F-type 75 ohm or N-type 50 ohm	F-type 75 ohm or N-type 50 ohm	F-type 75 ohm or N-type 50 ohm	F-type 75 ohm or N-type 50 ohm
DC power (DC by pass to the LNB)	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt
Current consumption	35 mA max	35 mA max	35 mA max	35 mA max
Material	Diecast aluminium	Diecast aluminium	Diecast aluminium	Diecast aluminium
Finish	Powder coat	Powder coat	Powder coat	Powder coat
Temperature range	-30 to +60° C	-30 to +60° C	-30 to +60° C	-30 to +60° C
Weight	300 g (F) 340 g (N)	300 g (F) 340 g (N)	300 g (F) 340 g (N)	300 g (F) 340 g (N)

Option

- Sep. DC power supply
- 10 MHz bypass (loss 5 dB)
- Customized specification

* Doesn't affect the Total System Noise Figure. You can see this in our free software SMW Link 3.0

