

SMW ILA



Professional Line Amplifiers with N- or F-connectors

All specified models are equalized to compensate the cable attenuation. 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 typ.	17 dB	10 dB	7 dB	5 dB
Gain @ 2150 MHz typ.	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	8.0 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	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt
(DC by pass to the LNB)				
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 typ.	0 dB	14 dB	16 dB	18 dB
Gain @ 2150 MHz typ.	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	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt	12 - 24 Volt
(DC by pass to the LNB)				
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 (www.smw.se/smwlink/smwlink.htm)



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