

Line amplifiers

Automatic gain control 0–30 dB

Fixed gain 18–24 dB



The AGC (Automatic Gain Control) Line Amplifier 0-30 dB is intended for situations where you need a constant level output from a LNB. Due to its very high IP3 together with the AGC it is usually possible to place the unit very close to the LNB.

Available with F-, N- or SMA-connectors. DC bypass is standard. Options include Separate DC power input via connector (F, N or SMA) or via two thin cables, 10 MHz bypass, DC-blocks and high current 5A bypass.

Features

- High P1dB +16 dBm typ.
- Compact and light weight
- High temperature range
- Several options available

TECHNICAL SPECIFICATIONS

MODEL:	ILA 18-24 dB	AGC amplifier 0-30 dB
Gain typ.	18 dB @ 950 MHz 24 dB @ 2150 MHz	0-30 dB @ 950 MHz 0-30 dB @ 2150 MHz
Gain flatness	±0.2 dB within 30 MHz	
Gain flatness	+/- 1dB across band	
Frequency range	950-2150 MHz	
Output P1 dB typ.	+16 dBm	
Output IP3 typ.	+26 dBm	+35 dBm at max gain.
Input IP3 typ.		+20dBm at min gain
Noise figure	5dB at max gain, 8dB at mid gain, 18dB at min gain.	
Level detector	Total average power level in the range 950-2150MHz	
Output level	Internally adjustable between -25dBm and +10dBm (total power)	
Modulation compatibility	PSK, QAM, FM	
Input VSWR	1.9:1 typ.	
Output VSWR	1.9:1 typ.	
Connectors	F-type 75Ω / N-type 50Ω / SMA-type 50Ω	
DC power	+12 to +24 V, 70 mA max. (DC bypass is standard)	+12 to +28 V, 70 mA max. through output, input or via separate port
Material & Finish	Die-cast aluminium, Powder coated	
Temperature range	-30 to +60°C	-40 to +80°C
Dimensions	96.3 x 26.1 x 82.8 mm (F)	
Weight	310 g (F & SMA), 352 g (N)	
Options	Separate DC input (via F / N / SMA-connector, or via cable) with integrated DC-block(s) 10 MHz bypass (loss 1 dB) High current 5A max. bypass (this option is not possible together with 10 MHz bypass)	Separate DC input (via F / N / SMA-connector, or cable) with integrated DC-block(s) 10 MHz bypass (loss 1 dB) 22kHz bypass 1450MHz limited frequency range -5 to +25dB gain range -15 to +15dB gain range High current 5A max. bypass (this option is not possible together with 10 MHz bypass)

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