



# LNA 6018 LOW NOISE AMPLIFIER 1 TO 18 GHz



- Wide band
- High gain
- Low noise figure
- Significantly enhancing the low level performance

The LNA 6018 is a low noise amplifier with typ. 22 dB of gain covering the nominal frequency range 1 GHz to 18 GHz. With its high gain and low noise figure, it will significantly increase the sensitivity of virtually all spectrum analyzers and other RF measuring instruments. All measuring instruments have a 'noise figure', which is a measure of how good the instrument is at measuring low level signals, the lower this figure, the better, although the lowest signal level will still be governed by the measurement bandwidth. A typical spectrum analyzer may have a noise figure of 20 dB or more, whereas a typical receiver may have a noise figure of 10 dB. The preamplifier has a noise figure of typical <3.5 dB, significantly enhancing the low level performance of such instruments, enabling signals that were previously masked by noise to be seen.

The low noise amplifier can be connected directly to the RF input (SMA) of the spectrum analyzer or EMI-receiver. The recommended power supply unit PSU 6018 is optionally available.

## Technical specifications LNA 6018

Frequency range:	1 to 18 GHz
Gain:	typ. 22 dB
Gain flatness:	typ. $\pm 3$ dB
RF-Input:	SMA - female, 50 $\Omega$
RF-Output:	SMA - male, 50 $\Omega$
VSWR (input):	$\leq 2.5$ (typ. < 2)
Noise figure:	typ. < 3.5 dB (at 25°C)
Max. input (linear):	$\leq -10$ dBm
DC-power supply:	17 to 20 V
DC-current:	approx. 160 mA
DC-connector:	ODU-female, plus on inner conductors
Operating temperature range:	0° to 40°C
Storage temperature range:	-20° to 60°C
Size (W x D x H) (without connectors):	20 mm x 88 mm x 36 mm
Size (W x D x H) (including connectors):	39 mm x 88 mm x 36 mm
Weight:	approx. 95 g



## LNA 6018 & PSU 6018

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## Technical specifications PSU 6018

Country code for mains connector:	Euro, UK, US, JP, AUS
Input:	100 to 240 V, 47 to 63 Hz, 400 mA
Output:	18 V DC, 0.84 A
DC-connector:	ODU-male, 2 pins, plus on inner conductors
Cable length:	approx. 2 m
Weight:	approx. 220 g