

EL-LNA-2 Specification



2 Channel Low Noise Amplifier



Parameter	Specification
Number of Input Channels	2 channel
Gain	x10, x100 selectable
Input Stage	Differential Amplifier
Common-Mode Rejection Ratio (CMMR)	> 63 dB (DC - 1 kHz)
Max Common-Mode Input Voltage	± 3 V
Input Impedance	ca. 1 M Ω ca. 25 pF
Input Impedance, BNC Shield to GND	ca. 10 k Ω 10 nF
Input Bias Current	$< \pm 0.1$ μ A
Offset Drift (related to input)	$< \pm 5$ μ V/ $^{\circ}$ C
Input Noise	4.5 nV / (Hz) $^{1/2}$ < 20 μ Vrms (20 MHz), < 4.5 μ Vrms (1 MHz)
Output Impedance	50 Ω \pm 0.5%
Max. Output Voltage Swing	± 2.5 V (no Load) ± 1.25 V (Load = 50 Ω)
Bandwidth (Output Swing \leq 1 V)	20 MHz (G=10), 15 MHz (G=100)
DC-Gain Error	typ. $\pm 0.1\%$, max. $\pm 0.2\%$
Connector Input	Isolated BNC
Connector Output	Non isolated BNC
Max. Input Voltage (Protected Input Range)	max. ± 25 V
Power Supply	9 – 18 VDC, max 2.5 W For Model: EL-LNA2-B: Main Adapter included
Case Box Version	108 x 45 x 170 mm

Block Diagram

