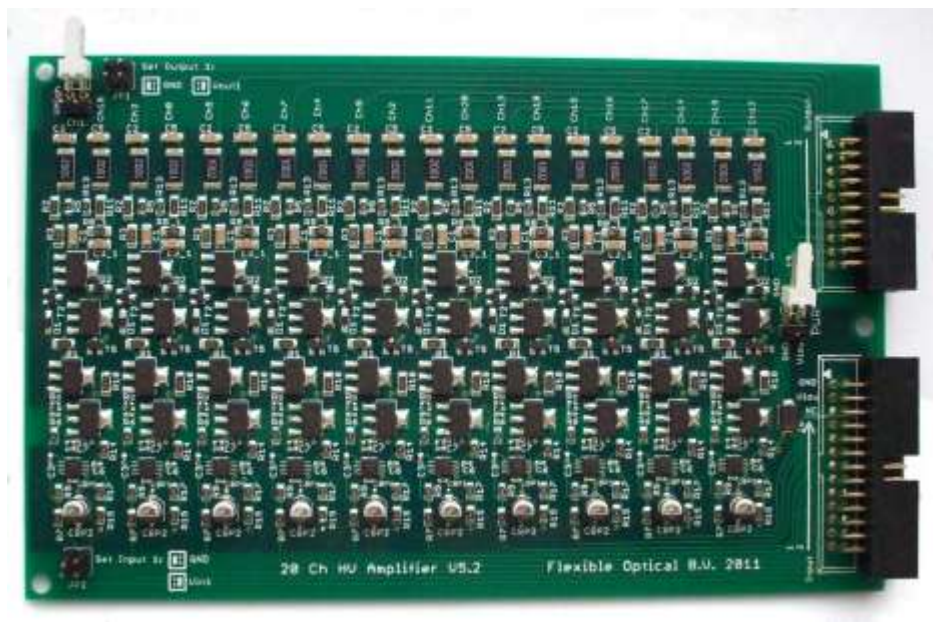


## OKO 20-CHANNEL DC HIGH VOLTAGE AMPLIFIER v5.2

OKO 20-channel DC high voltage amplifier is fabricated using a discrete-component technology with DMOS FET transistors at the output. This facilitates the reliability of the amplifier, stability of its parameters and ensures the broadband output of ~10kHz on the capacitive loading  $C \leq 10\text{nF}$ . All the channels are short-circuit protected and equipped with an auto-zero circuit.

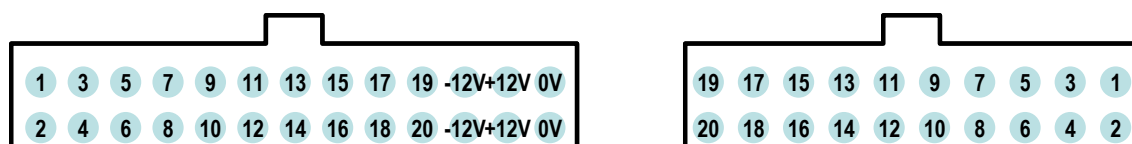
PARAMETER	VALUE
Number of channels	20; 19 channels can be used with one extra grounded channel #1 (see jumper configuration)
Max capacitive load	20 nF
Output impedance (DC)	10 kOhm
DC Gain	~81
Power consumption (DC)	3 W max
Max high voltage supply	400 V (300 V recommended)
Frequency range	0...1.1 kHz (6.9 nF load)



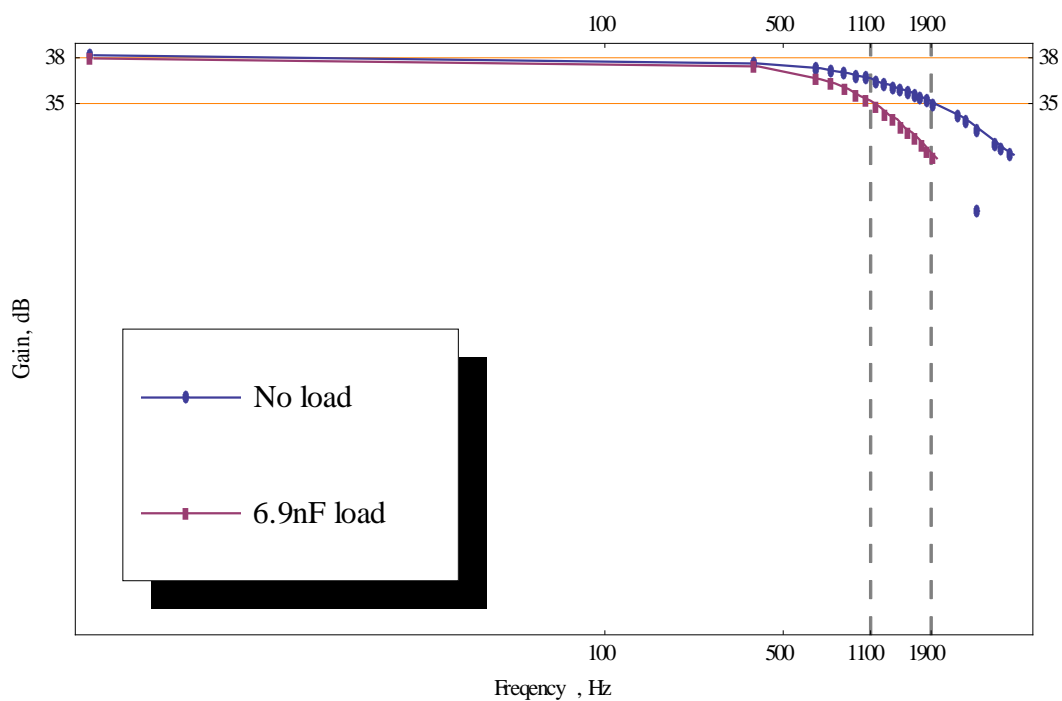
Configuration of jumpers:

*JP1* –  $V_{out1}$  configuration (set to “GND” to have ground as the output of the channel #1;

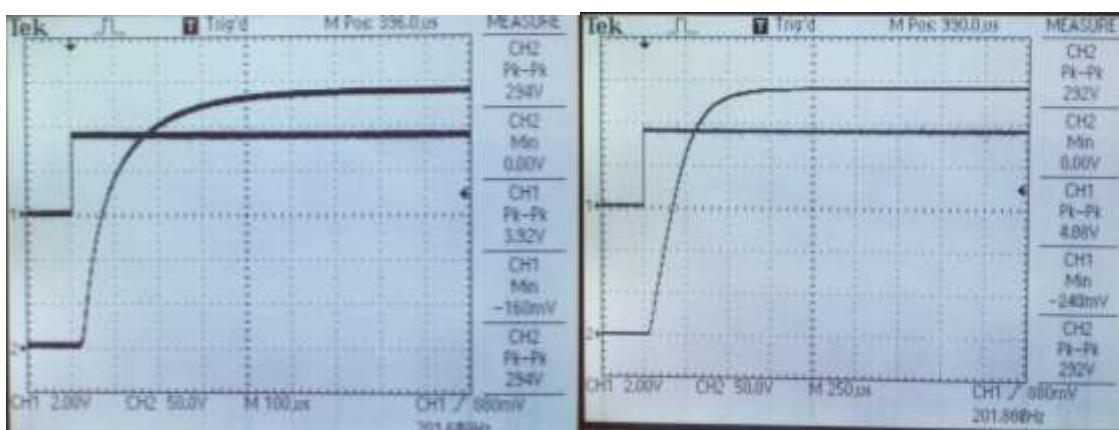
*JP2* –  $V_{in1}$  configuration (set to “GND” to connect the input pin #1 to Gnd);



1. Channel-pin assignment: configuration of the PCB connectors (front view)



**2. Amplifier gain versus frequency.**



**3. Unit step response without load (left) and with 6.9 nF load (right)**