VCA-4MX, quad vc amplifier

The VCA-4MX consists of four individual voltage controlled amplifiers. All amplifiers are identical and work in a semi-logarithmic mode. Amplifiers accept both DC and AC signals.
The VCA-4MX has eight outputs for maximal flexibility.
All amplifiers has an individual output, two summing outputs for all amplifiers (both normal and inverted) and additionally two summing outputs for vca1 + vca2 and vca3 + vca4.
The VCA-4MX can be used as quad attenuator (using all four amplifiers separately), as a four input mixer (using summing outputs) and as two separate two inputs mixers.
All amplifiers has a dedicated level controller (knobs) and CV inputs which controls outgoing signals attenuation in semi-logarithmic mode. The manual controllers (knobs) determinates the maximal amount of controlled gain (or rather attenuation). The semi-logarithmic transfer function is much more practical than a true logarithmic because it's "imitates" the natural behaviour of volume controllers.

Performances	
Total frequency controllable range	DC to 50 kHz
Maximal input/output audio signal	20 Volts p-p
VCA's	
LEVEL's	manually (knobs) or semi-logarithmic 0dB gain @ +5 Volts CV input -80dB gain @ 0 Volts CV input
Total distortion	less than 0.1% @ 10 Volts input
Audio impedance	
INPUTS	20kohms
OUTPUTS	1kohms
Current consumption	30mA
Dimensions	128.4mm (H), 50.4mm (B) 3 HE, 10TE