

## RES-4, four band voltage controlled parametric resonator

The RES-4 is a modified VCEQ-4 with combined four band pass filters in to two outputs; BAND PASS and NOTCH. The BAND PASS is a sum of all four filters (RES1, RES2, RES3 and RES4) in phase and the NOTCH is a sum of filter1 (RES1) + filter3 (RES3) in phase and filter2 (RES2) + (filter4 (RES4) inverted.

The result of these two outputs is a different frequency response with differently positioned notches for the BAND PASS and the NOTCH.

All parameters (Peak frequency, Bandwidth and Level) can be controlled manually (knobs) or by CV inputs, individually for all four resonators. Additionally, peak frequencies and levels, for all four resonators, can be controlled by linked CV inputs (MASTER CV FREQ and LEVEL).

### Performances

Total frequency range	5Hz to 22kHz
Bandwidth (BW)	0,6 to 0.02 octaves at 3dB point
Level	0 to 20dB (BW=0,6) and 35dB (BW=002)
Control inputs	
Frequency	1Volt/octave
Master Freq <input type="checkbox"/> <input type="checkbox"/>	controls all four EQ's frequencies
Bandwidth	0 to 5Volts for 0,6 to 0,02 (frequency at -3dB point/ peak frequency)
Level	0 to 5Volts
Maximal input/output	20Volts p-p
Overload indicator	at 3dB below clip level
Current consumption	110mA
Dimensions	128.4mm (H), 121.7mm (B) 3 HE, 24 TE

