



# Specification

Electronic: Typical values after 30 minute warm up at 20°C ambient temperature

Filter Frequency	Available from DC to 500kHz
Filter setting	1200 Modules – 3 settings $f_a$ , $f_b$ , $f_{a+b}$ , 1600 Modules 255 steps set by dip switch
Input Gain	0 - 60 dB, selectable by one resistor per channel.
Input	Single ended/differential input. Coupling DC, AC. (AC coupling matched for differential input) IEPE (ICP <sup>®</sup> ) 24V, 1 – 10 mA selectable.
Signal Level	Signal +/- 10 Volt.
Trim Adjustments	DC Offset, Gain, both by 10 turn pot.
Output Attenuation	User defined by two resistor network.
Connectors	BNC in and out
Operating Temperature	-10 to 45 °C, non condensing.
Dimensions	Kemo 21 Series Rack 1 slot (100 mm x 160 mm x 20 mm)

## Ordering Information and Filter Responses

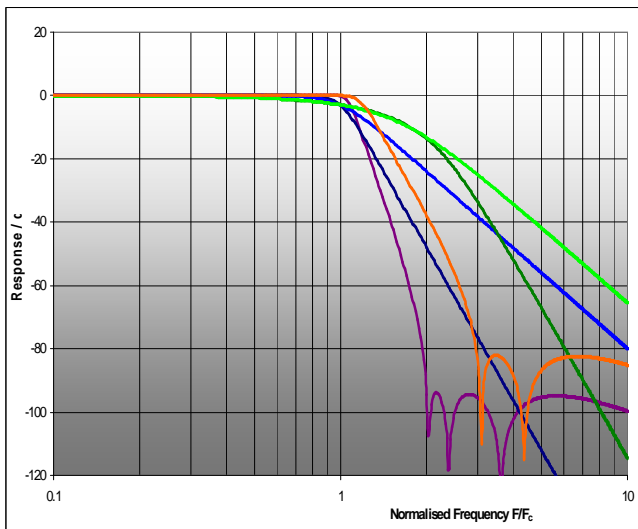
The CardMaster 21.2 is available with a range of filter responses. When ordering select fixed (1200 modules) or variable frequency (1600 modules) the frequency range and a suitable filter response.

Some response types are shown below and can be ordered as:-

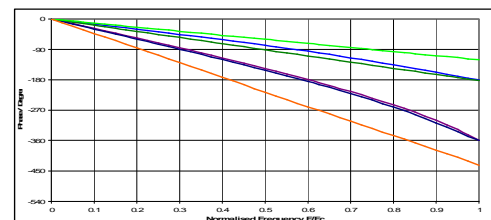
- 05** 4 pole Butterworth, 24 dB/Octave, monotonic stopband.
- 03** 8 pole Butterworth, 48 dB/Octave, monotonic stopband.
- 09** 4 pole Bessel, 24 dB/Octave, monotonic stopband.
- 07** 8 pole Bessel, 48 dB/Octave, monotonic stopband.
- 13** Elliptic type response, 94 dB/Octave, - 90 dB stopband.
- 41** Flat, linear phase response, 52 dB/Octave, - 80 dB stopband.



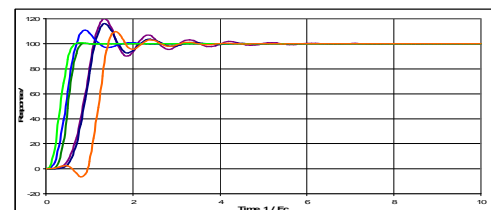
Two channel CardMaster 21.2 in compact mini rack.



Some CardMaster 21.2 Filter responses



Some CardMaster 21.2 Filter Phase responses



Some CardMaster 21.2 Filter Step responses

Due to continued product development Kemo reserves the right to change specification without notice.  
ICP<sup>®</sup> Trademark of PCB Piezoelectronics