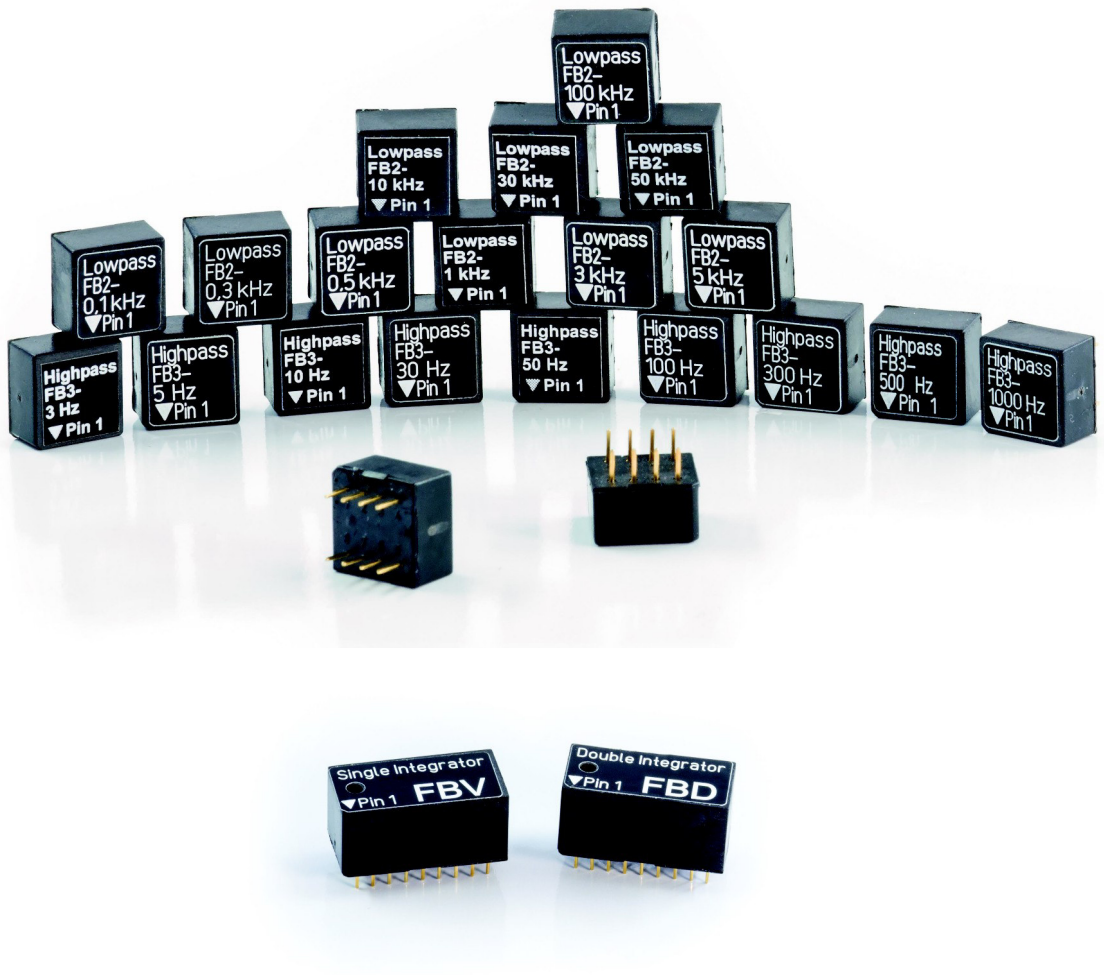
Filter and Integrator Modules

FBx



Application

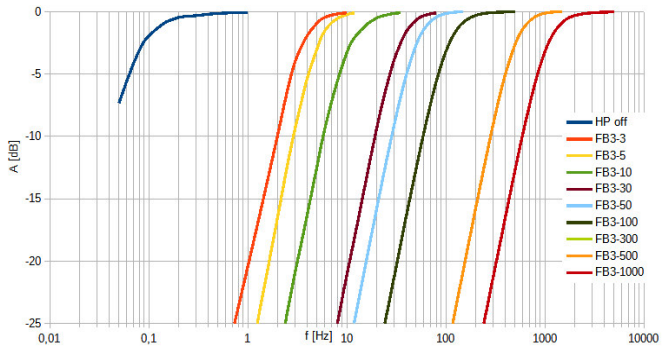
- High pass filter modules (FB3) and low pass filter modules (FB2)
- For the signal conditioners M33, M208 and the vibration monitor M12
- Suppression of unwanted frequencies and noise
- Enhancement of the signal-to-noise ratio
- Antialiasing filter in sampling systems
- Single and double integrator modules for the signal conditioners M33 and M208
- Conversion of acceleration into velocity (FBV2) or displacement (FBD)

Technische Daten

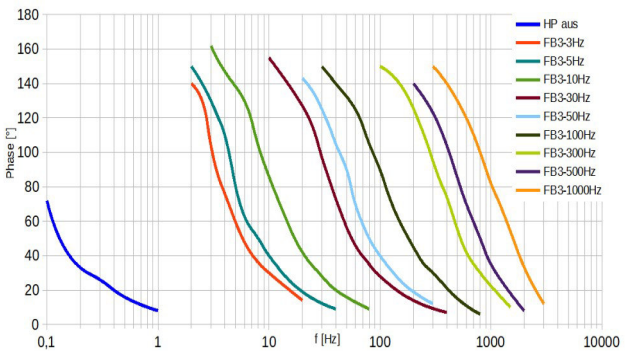
High Pass Filter Modules FB3

Available high pass filter frequencies (- 3 dB)	3 / 5 / 10 / 30 / 50 / 100 / 300 / 500 / 1000	Hz
Filter design	Butterworth, 2nd order	
Attenuation	> 35	dB/dec.

Amplitude Response



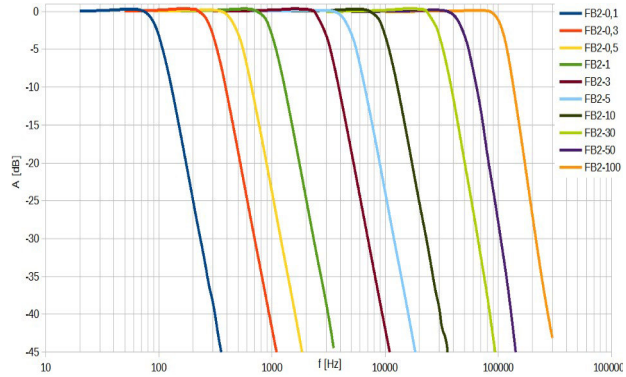
Phase Response



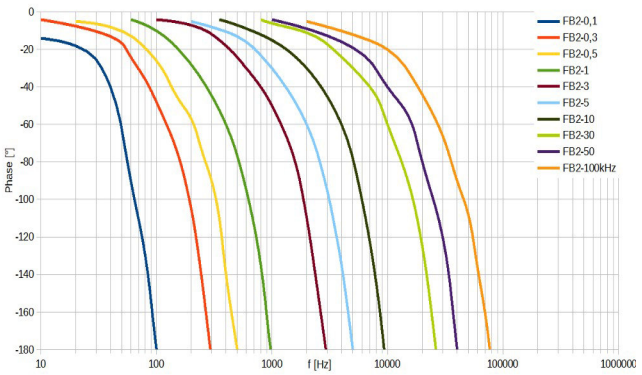
Low Pass Filter Modules FB2

Available low pass filter frequencies (- 3 dB)	0,1 / 0,3 / 0,5 / 1 / 3 / 5 / 10 / 30 / 50	kHz
Filter design	Butterworth, 4th order	
Attenuation	> 75	dB/dec.

Amplitude Response

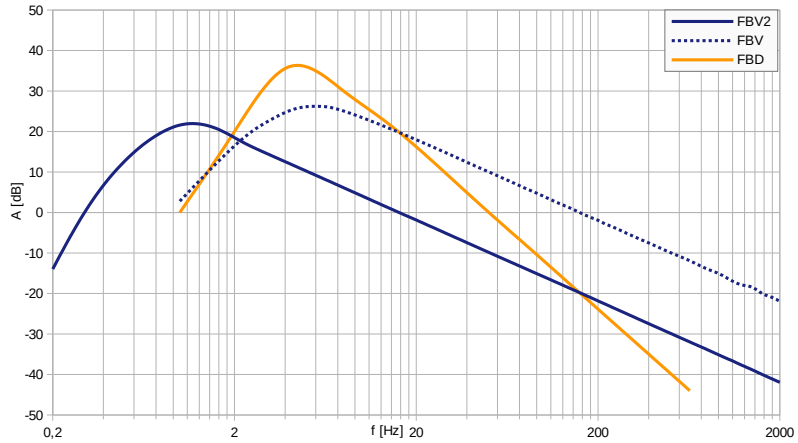


Phase Response



Integrator Modules	FBV (obsolete)	FBV2	FBD	
Function	Single integrator	Single integrator	Double integrator	
High pass frequency (-3 dB)	5	1	5	Hz
High pass design	Butterworth, 2nd order	Butterworth, 2nd order	Butterworth, 2nd order	

Amplitude/frequency Response FBV/FBD



Note: The new FBV2 integrator module has 20 dB less gain than the obsolete FBV.

Gain	15.92 Hz	159.2 Hz
FBV	20 dB	0 dB
FBV2	0 dB	-20 dB
FBD	20 dB	-20 dB

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