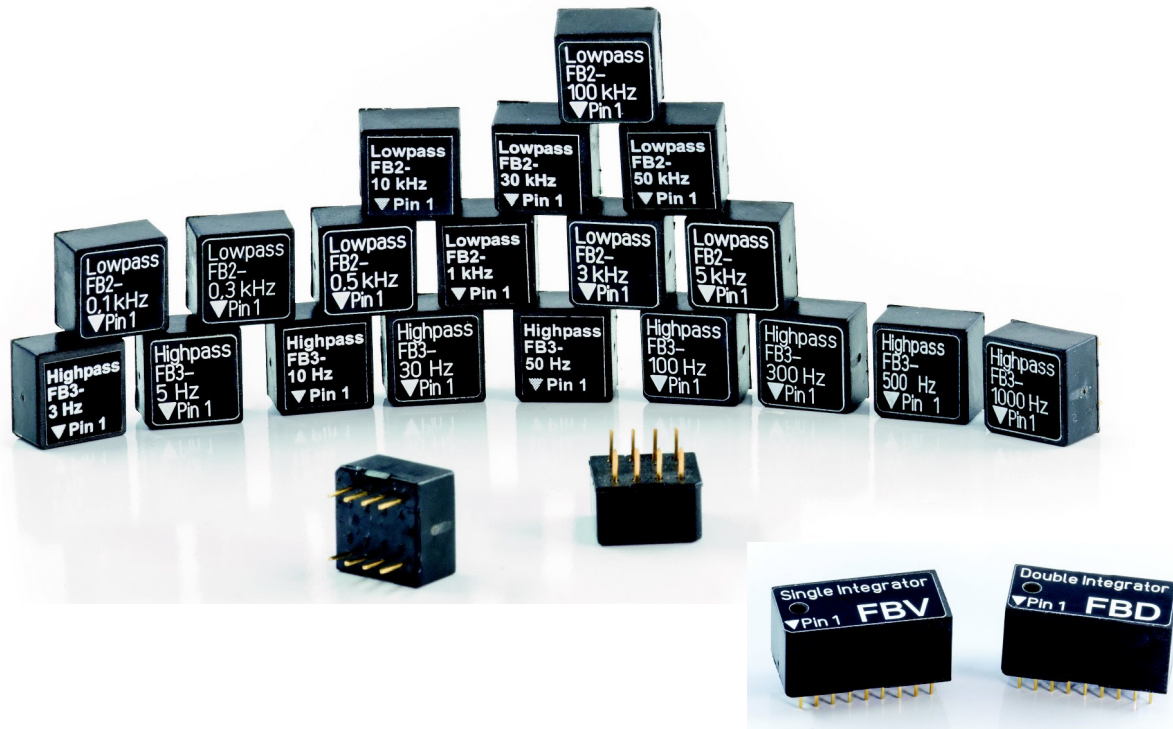


g

VIB-FBx

Filter- und Integratormodule / Filter and Integrator Modules



ANWENDUNG

- Hochpass-Filtermodule (FB3) und Tiefpass-Filtermodule (FB2)
- Zum Einsatz in den Messverstärkern M33 und M208 sowie der Schwingungsüberwachung M12
- Unterdrückung von unerwünschten Frequenzanteilen und Rauschen
- Erhöhung des Signal-/Rauschabstandes
- Antialiasing-Filter in abtastenden Messsystemen
- Einfach- und Doppelintegratormodule für die Messverstärker M33 und M208
- Umwandlung von Schwingbeschleunigung in Schwinggeschwindigkeit (FBV) bzw. Schwingweg (FBD)

APPLICATION

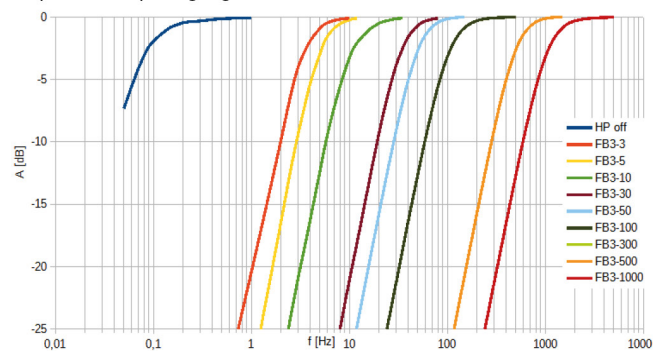
- High pass filter modules (FB3) and low pass filter modules (FB2)
- For the signal conditioners M33, M208 and the vibration monitor M12
- Suppression of unwanted frequencies and noise
- Enhancement of the signal-to-noise ratio
- Antialiasing filter in sampling systems
- Single and double integrator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

TECHNISCHE DATEN

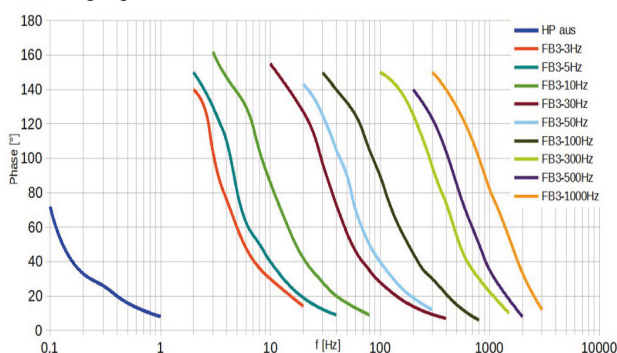
Hochpass-Filtermodule FB3

Verfügbare Hochpassfrequenzen (-3 dB)	3 / 5 / 10 / 30 / 50 / 100 / 300 / 500 / 1000	Hz
Filtercharakteristik	Butterworth, 2. Ordnung	
Dämpfung	> 35	dB/Dek.

Amplitudenfrequenzgang



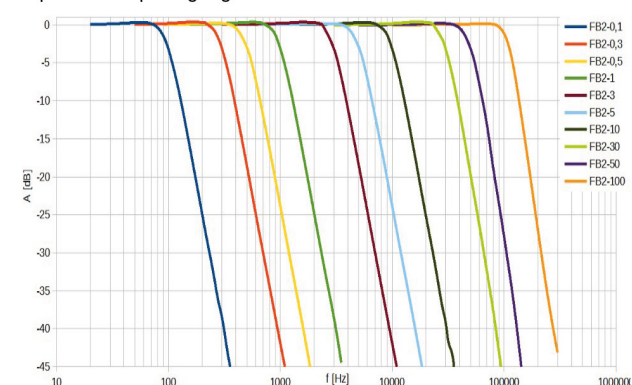
Phasengang



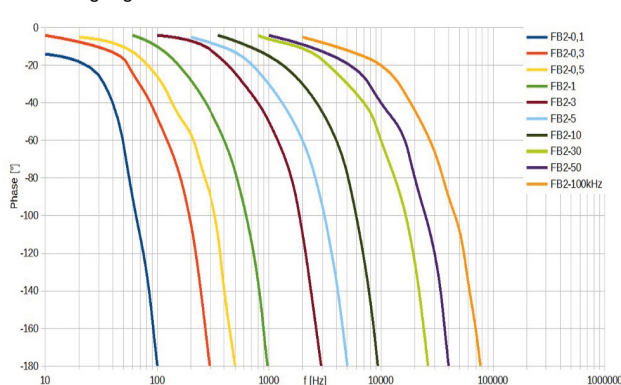
Tiefpass-Filtermodule FB2

Verfügbare Tiefpassfrequenzen (-3 dB)	0,1 / 0,3 / 0,5 / 1 / 3 / 5 / 10 / 30 / 50	kHz
Filtercharakteristik	Butterworth, 4. Ordnung	
Dämpfung	> 75	dB/Dek.

Amplitudenfrequenzgang



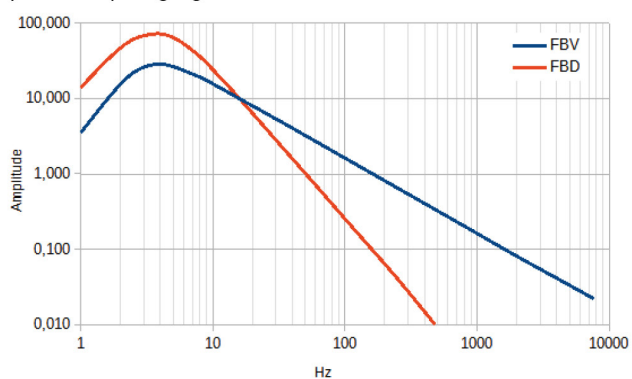
Phasengang



Integratormodule

	FBV	FBD
Funktion	Einfach-Integrator	Doppel-Integrator
Hochpassfrequenz (-3 dB)	3	5
Hochpasscharakteristik	Butterworth, 2. Ordnung	Butterworth, 2. Ordnung

Amplitudenfrequenzgang FBV/FBD



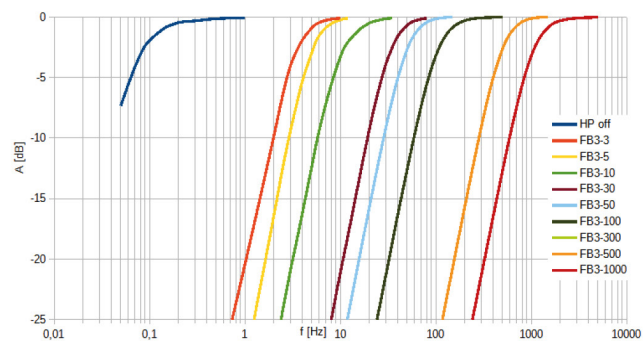


TECHNISCHE DATEN

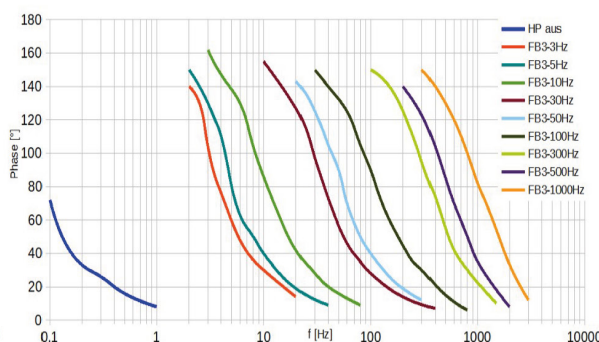
High Pass Filter Modules FB3

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



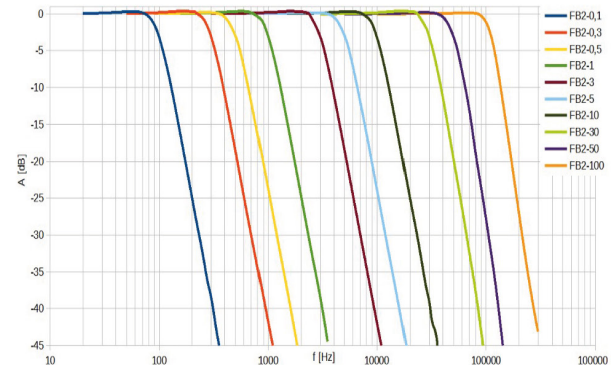
Phase Response



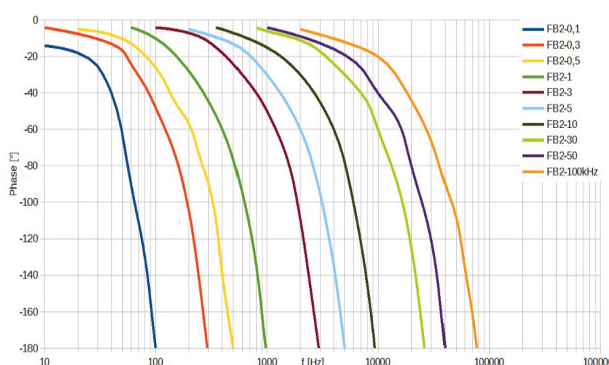
Low Pass Filter Modules FB2

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	FBD	
Function	Single integrator	Double integrator	
High pass frequency (-3 dB)	3	5	Hz
High pass design	Butterworth, 2nd order	Butterworth, 2nd order	

Amplitude Response FBV/FBD

