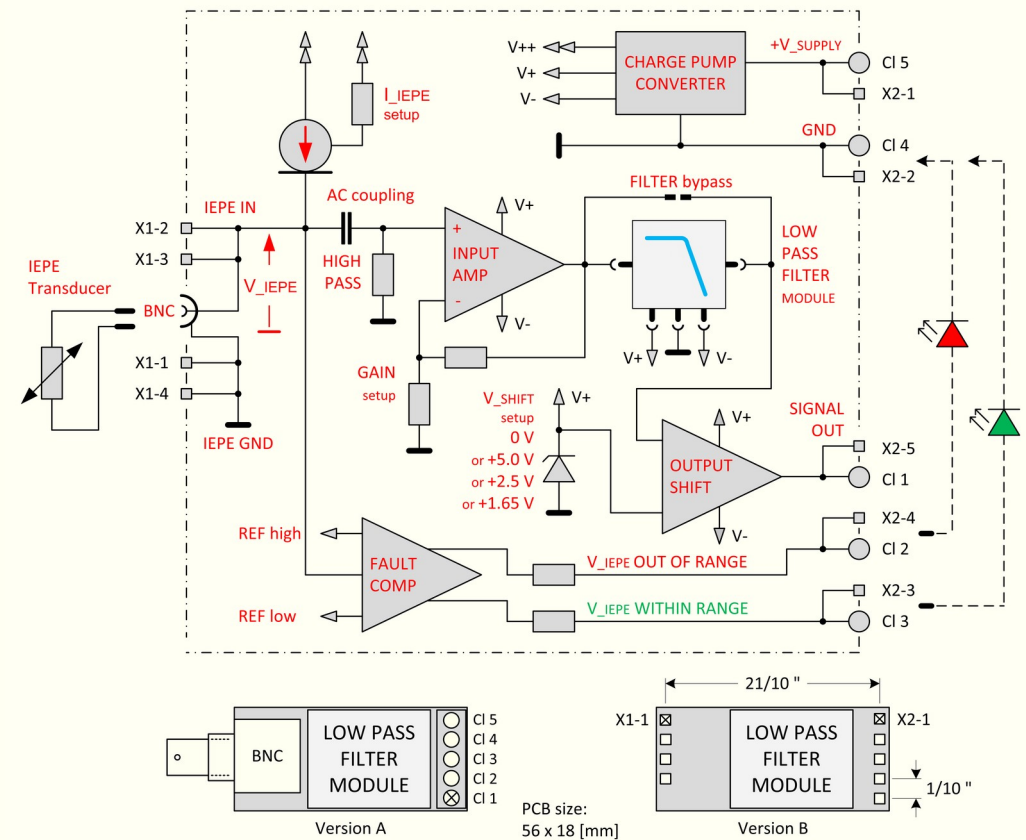


# IEPE signal conditioning OEM module IPE-FM6

## IEPE transducer excitation and buffer amplifier for shifting AC signal input to balanced or unbalanced signal output

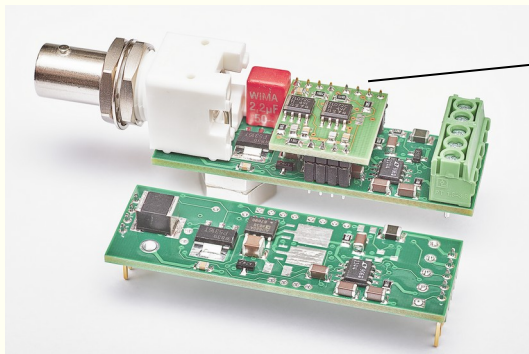
- Applications: vibration, acceleration, sonic and acoustic noise measurement, strain and materials testing
- $I_{IEPE}$  excitation: constant current (@  $V_{IEPE}$  20 to 26 V)  
2, 4, 8 [mA]  $\pm 5\%$  (-10 to +70° C) – current specify when ordering
- $V_{IEPE}$  excitation (approx.  $V_{in} * 2 - 3 V$ )  
@  $V_{supply} = 12V$ :  $V_{IEPE} \geq 20 V \rightarrow$  signal range 0 to  $\pm 8 V$   
@  $V_{supply} = 15V$ :  $V_{IEPE} \geq 26 V \rightarrow$  signal range 0 to  $\pm 10 V$   
@  $V_{supply} = 24V$ :  $V_{IEPE} \geq 26 V \rightarrow$  signal range 0 to  $\pm 10 V$
- AC Bandwidth: 0.5 Hz to 25 kHz (-3dB) (filters bypassing)
- Signal input [VAC]: 0 to  $\pm 1$ ,  $\pm 2$ ,  $\pm 5$ ,  $\pm 10$
- Signal Output [V]:  $\pm 5$  (10) or 0 to +10 or 0 to +5 or 0 to +3.3
- Output offset [VDC]: 0.0 (bal. to GND) or +5.0 (unbal. for 0 to +10) or +2.5 (unbal. for 0 to +5) or +1.65 (unbal. for 0 to +3.3)
- THD + N: 0.015 % at 1 kHz
- Single power supply [VDC]: 12 to 15 or 22 to 26 (< 1.2 W @ 24 V)  
- supply voltage specify when ordering:  $\_12$  or  $\_24$
- External LEDs for indication signal input "open circuit" or "signal short to GND"  
• LED "green" ON for normal operation and  
• LED "red" ON for fault indication
- Special feature: **Active low pass filters** as piggyback module - Butterworth 8<sup>th</sup> order for bandwidth limiting or anti-aliasing use in the range of 500 Hz to 25 kHz  
- cut-off frequency specify when ordering



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Filter Piggyback

Version A (example fully config.)

Version B (example partly config.)

