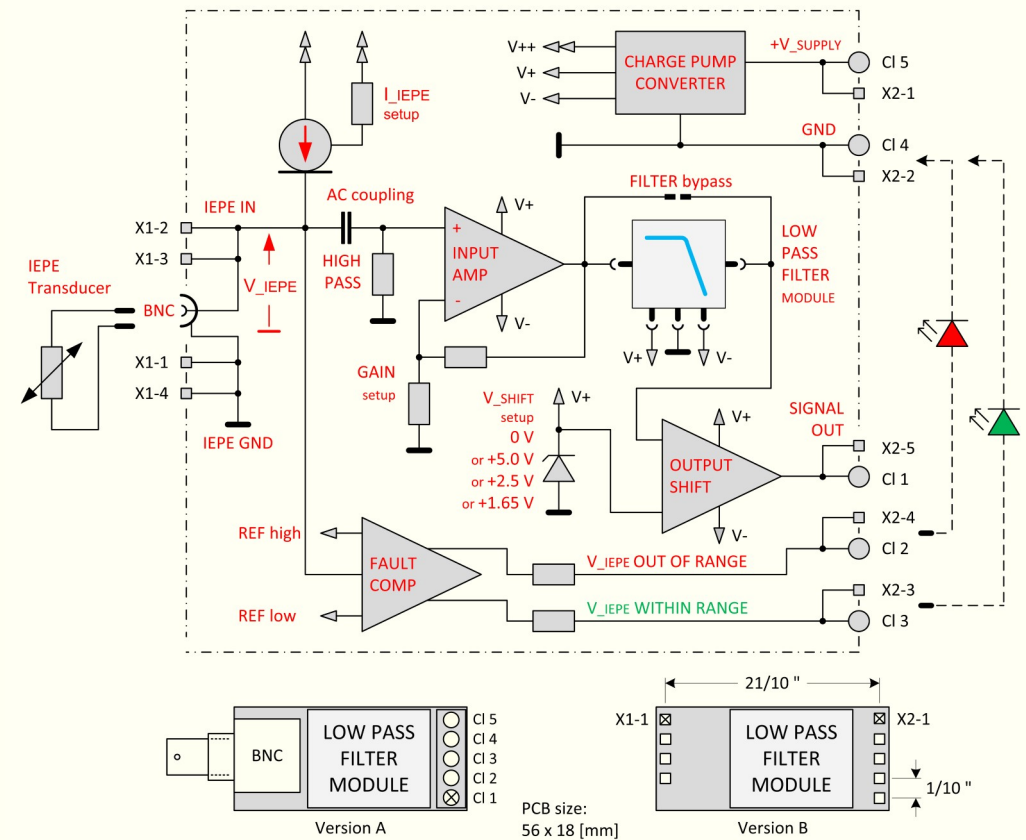


IEPE signal conditioning OEM module IPE-FM6

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

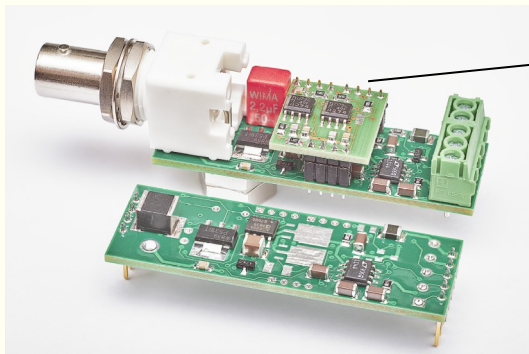
- Applications: vibration, acceleration, sonic and acoustic noise measurement, strain and materials testing
- I_{IEPE} excitation: constant current (@ V_{IEPE} 20 to 26 V)
2, 4, 8 [mA] $\pm 5\%$ (-10 to +70° C) – current specify when ordering
- V_{IEPE} excitation (approx. $V_{in} * 2 - 3 V$)
@ $V_{supply} = 12V$: $V_{IEPE} \geq 20 V \rightarrow$ 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 ± 1 , ± 2 , ± 5 , ± 10
- Signal Output [V]: ± 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 8th order for bandwidth limiting or anti-aliasing use in the range of 100 Hz to 20 kHz
- cut-off frequency specify when ordering



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Filter Piggyback

Version A (example fully config.)

Version B (example partly config.)

