



Why use PICOCAP[®] in my MEMS app?

Technical reasons:

- Very high sampling rate (up to 500 kHz)
- Low power (microamp range)
- Flexible 48 bit on-chip digital signal processor (programmable)
- Up to 8 channels grounded or 4 floating with one chip
- Practically no limitations in capacitance range
- High resolution up to 22 bit (e.g. 6 aF RMS at 10 pF + 1 pF)

Commercial reasons:

- Very low number of components (DSP is included)
- Measure combined sensors with only one chip
- Ultra compact designs feasible
- Short time-to-market due to flexible DSP
- Differentiation due to outstanding technical features
- Cost reduction (shrunk PCB, no external μ C, etc.)