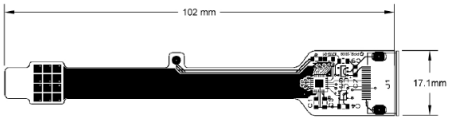
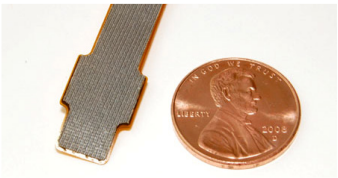
PulseTact Evaluation System
Embedded Pulse Waveform Measurements

Capturing the Sense of Touch



PulseTact Evaluation Sensor Configuration: 3x4 array, 2.5mm, sensor drawing



PulseTact Evaluation Sensor

OVERVIEW

PPS' *PulseTact Evaluation System* is an easy to use tool for evaluating ***PulseTact*** sensors performance for possible future and higher volume OEM projects. **PPS' *PulseTact*** technology utilizes *DigiTacts* sensors comprised of multiple tactile pressure-sensing elements to accurately and reliably capture pulse waveform while providing serial digital output suitable for embedded applications. The ***Evaluation System*** is also extremely useful as a means for design engineers to accelerate their learning curve around ***PulseTact*** technology and how it can be integrated in to their products or systems. ***PulseTact*** sensors are used in a variety of applications either as a research tool or integrated into OEM products.

The evaluation sensor design is comprised of twelve 2.5×2.5 mm sensing elements arranged in a 3x4 array pattern. The sensor output can be saved and played back using **Chameleon TVR** software or exported in ASCII format for additional analysis. A **Windows** API & documentation and lower-level digital protocols are available to customers for integrating pulse data into OEM products.

APPLICATIONS

Medical researchers and product developers have long desired for a simple, non-invasive means of capturing high-fidelity pulse waveform data. The ***PulseTact*** technology is bringing their desire to reality. One of our most recent success stories is a company in China, **JXJ Technologies** who recently launched a comprehensive personal health management watch. The ***jWotch***, is designed specifically for the elderly and people dealing with long term illnesses or recovery periods. Our ***PulseTact*** sensors are integrated into the watchband to capture pulse waveforms and **eliminates the need for the additional chest strap** used in most personal pulse monitoring watches. This is a significant innovation for personal pulse monitoring systems especially for the medical and fitness device industries. Based on the ***PulseTact*** design, **PPS** can custom develop pulse-sensing solutions for OEM applications, including sensors, interface, and probe.

ADVANTAGES

- **Non-Invasive** system for capturing high-fidelity pulse waveform data without precisely positioning the sensor
- **Highly Sensitive** with acquisition rates up to 100Hz
- First **Multi-Element** sensor used for health monitoring
- Broad range of **Sensor Design Options**
- Eliminates the need for a Chest-Strap
- SPI or I·C serial digital interface for OEM integration

PULSETACT EVALUATION SYSTEM COMPONENTS

- 2 un-mounted **Pulse Sensor Probes**
- **D700** sensor interface module with USB or optional Bluetooth wireless connectivity
- **Chameleon TVR** software for collecting and displaying pulse waveform
- All necessary **Cables**
- **API** & documentation for software development

PPS offers custom pulse sensor configurations to meet varying customer requirements, in particular for OEM applications. Contact us today to find out how we can help maximize the efficiency of your puls e sensing application. Call +1.310.641.8100 or email info@pressureprofile.com.

PULSETACT EVALUATION SYSTEM SPECIFICATIONS	
Array Size	10mm × 7.5mm (4×3 grid)
Element Size	2.5mm × 2.5mm
Thickness	~ 0.5 mm
Full Scale Range:	300 mm Hg (40 kPa)
SNR (1 sigma)	1 mm Hg (0.14 kPa)
Scan Rate:	95-100 Hz
Temperature Range:	-20 to +100 C
Power	USB bus power or Rechargeable Li·

PULSETACT EVALUATION SYSTEM SAMPLE DATA DISPLAY

