

SP82 PRESSURE SENSORS

MEMSCAP
THE POWER OF A SMALL WORLD

The SP82 absolute sensor has been designed to enable ultra low long term drift with typical drift values much below 0.02% of Full Scale Output. The basic pressure sensing element of the SP82 is a monolithic silicon chip with a cavity etched out to form a diaphragm, which top side contains implanted piezoresistive elements forming a Wheatstone bridge. All our MEMS devices include a temperature sensor and a resistor for heating mode integrated at the chip level and also located on the top side of the silicon sensor chip. Relative pressure sensors also have the pressure inlet port at the lower side, with ambient pressure vented through a small hole in the sensor cap as reference. The Mean Time Before Failure (MTBF) value for the SP82 sensor is more than 20 years and is based on field failures and flight hours from more than 20 years of usage.



ankara regnum sky tower m. yazıcıođlu cad. 57/115 06530
çankaya t +90 312 483 3585 f +90 312 483 3912
istanbul acıbadem mah. akasya evleri a1 blok 25/197 34660
üşküdar t +90 216 504 0787 f +90 216 504 0786



imca.com.tr