



Semiconductor Technology and Applied Research Centre (STARCG)

Semiconductor Technology and Applied Research Centre (STARC), Bengaluru has been developing and manufacturing MEMS products for nearly 10 years. STARC, an ISO 9001 : 2015 certified, has a dedicated MEMS fab for manufacturing on 6" wafers, packaging and testing with state of art facilities. STARC foundry offers the flexibility to use substrate materials like Silicon, SOI, glass, quartz and CMOS. STARC offers services with high quality and reliability in MEMS design, prototyping, process development & manufacturing. We are also actively collaborating with MEMS design centres of user laboratories and academic institutes to strengthen the design capabilities. Our Q&A team enforces strict compliance to quality standards and generates quality & traceability documents meticulously to meet stringent Aerospace and Missile requirements.



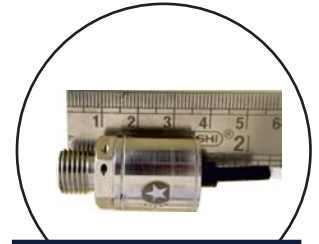
Piezo resistive
Pressure Transducer



High Temperature
Pressure Transducer



Weldable Pressure
Transducer



Compact Pressure
Transducer



Pressure Transducer
with Digital Output



Pressure Transducer
with Digital Display



Naval Pressure
Transducer



Wireless (GSM)
Pressure Transducer

Facilities available at STARC

Design, MEMS Fabrication Foundry

Assembly & Packaging

Low Temperature Co-Fired
Ceramic(LTCC) and
Environmental Test Facility.

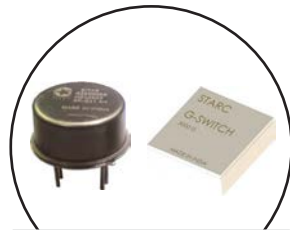


MIL qualified MEMS based piezo-resistive pressure transducers of various ranges for Missile, Aerospace and Naval applications. Our pressure transducers successfully used in Mission Shakti(ASAT), Agni-1 Prime missile, Agni-2 Prime missiles and Pralay missiles.

MEMS g-Switchs (1500g and 3000g), Single axis accelerometers, Temperature sensors, Pressure switch for land mine applications, LTCC based Band Pass Filters, LTCC based customized packages, ICP sensors for medical applications. Ceramic(LTCC) RF QFN Package, Mechanical pressure Switch, MEMS Accelerometer based PIDS, MEMS High Temperature Pressure Transducer, MEMS Pressure Transducer with Digital Display, MEMS Compact Pressure Transducer, MEMS Naval Pressure Transducer, MEMS Weldable Pressure Transducer, Piezoelectric Accelerometer, Seismic Underground Detection Sensor, Infrasonic MIC for snow-avalanche detection.



**Accelerometer
based PIDS**



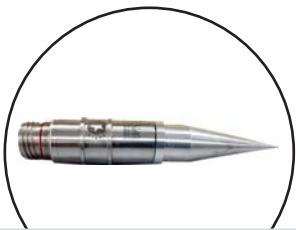
g-Switch



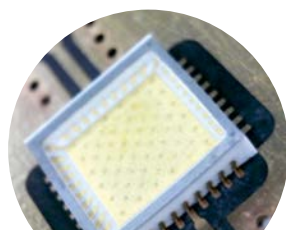
Accelerometer



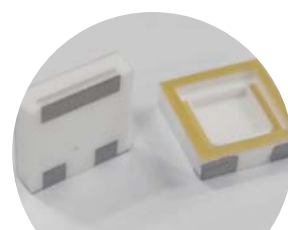
**Mechanical
Pressure Switch**



**Seismic Underground
Detection Sensor**



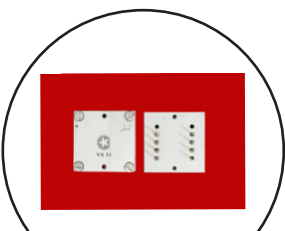
**Ceramic(LTCC)
RF QFN Package**



**Customized
LTCC Packages**



**Piezoelectric
Accelerometer**



Vibration Sensor





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