

SCB10H

Capacitive absolute pressure sensor
element (DIE)



muRata

Murata Electronics Oy

*Innovator
in Electronics*

SCB10H

Capacitive absolute pressure sensor element (DIE)

Key features

- Extreme low current consumption
- High accuracy
- High capacitance dynamics
- High overpressure and shock durability
- Size 1.4 x 1.4 x 0.85 mm (w x l x h)
- High pressure shock survival (> 200 bar)
- High insulation resistance (> 10 GΩ)
- RoHS compliant
- Various pressure ranges possible (1.2 - 25 bar)
- Proven capacitive 3D-MEMS technology
- Operates at near vacuum applications

Applications

- medical devices
- flow meters
- barometers
- altimeters



SCB10H CHARACTERISTICS (typical)

Parameter	Unit	B012	B080	B250
Measuring range	kPa	30-120	100-800	100-2500
Capacitance at min. pressure	pF	7.8	7.5	7.3
Capacitance at max. pressure	pF	11.8	13.4	13.9
Capacitance dynamics	pF	4.0	5.9	6.6
Sensitivity	fF/kPa	55 (@100 kPa)	6.2 (@350 kPa)	1.3 (@100 kPa) 6.5 (@2500 kPa)
Pressure error with 3 point calibration	kPa	~ 0.03	~ 0.1	~ 0.4

FOR MORE INFORMATION, PLEASE REFER TO THE PRODUCT DATASHEETS AVAILABLE ONLINE AT WWW.MURATAMEMS.FI