

# BGSA14M2N10

## Ultra small antenna tuning SP4T

### Features

- Ultra low  $R_{ON}$  resistance of  $0.85\ \Omega$  in ON state
- Low  $C_{OFF}$  capacitance of 160 fF in OFF state
- High RF operating peak voltage handling of 45 V in OFF state
- MIPI RFFE 2.1 control interface
- Extremely low current consumption of 22  $\mu$ A
- 4 default USID addresses via external USID\_SEL pin
- Small form factor 0.95 mm x 1.3 mm (MSL1, 260 °C per JEDEC J-STD-020)



### Potential applications

- Impedance, Antenna and Inductance Tuning
- Tunable Filters

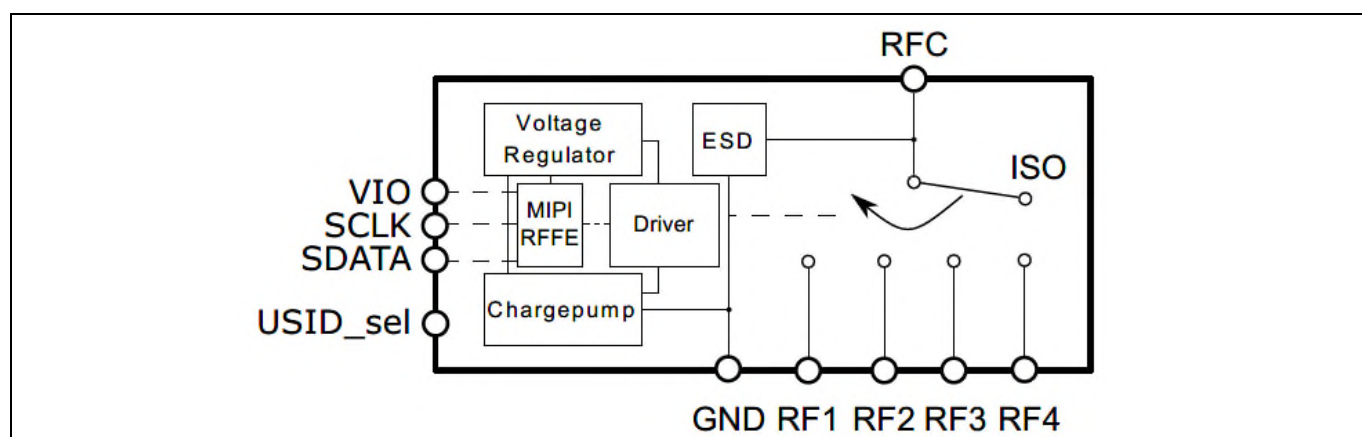


### Description

The BGSA14M2N10 is a very small single-pole four throws (SP4T) Antenna Tuning switch optimized for RF applications up to 7.125GHz. Its MIPI RFFE digital control interface allows easy implementation and best flexibility when operated in cellular mobile RF Front-End designs.

The BGSA14M2N10 includes 4 low  $R_{ON}$  ports making it ideal for high Q tuning applications. Thanks to its high RF voltage ruggedness, it is suited for switching any reactive devices such as inductors and capacitors in RF matching circuits without significant losses.

## Block diagram and ordering information



**Figure 1 BGSA14M2N10 Block diagram**

**Table 1 Ordering Information**

| Type        | Marking | Package   | Product name       |
|-------------|---------|-----------|--------------------|
| BGSA14M2N10 | M2      | TSNP-10-9 | BGSA 14M2N10 E6327 |

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