

BGSA14M2N10

Ultra small antenna tuning SP4T

Features

- Ultra low R_{ON} resistance of 0.85Ω 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 μ 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

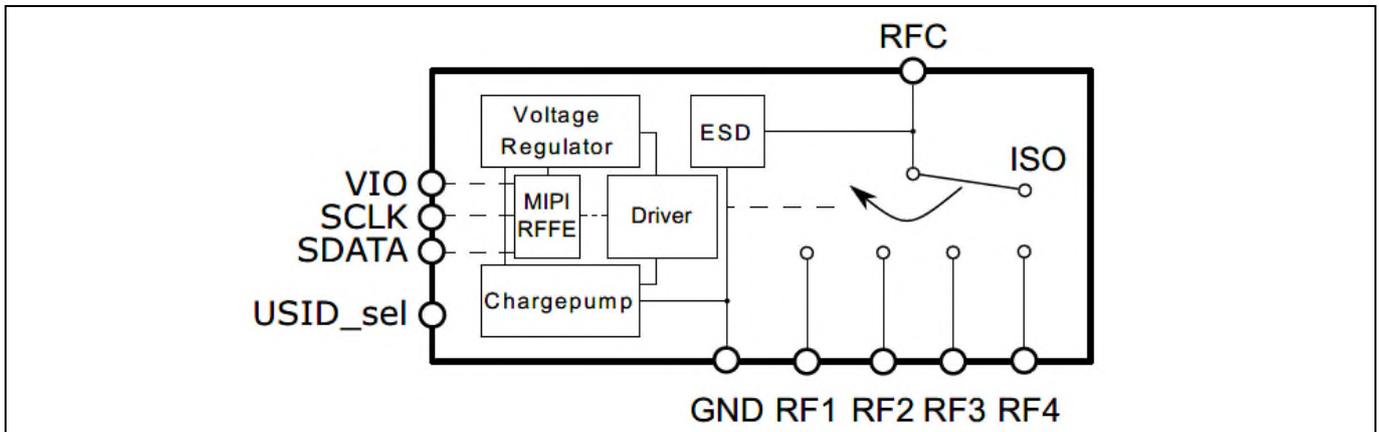


Figure 1 BGSA14M2N10 Block diagram

Table 1 Ordering Information

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

For more technical information, please contact our Technical Assistance Center or your local Infineon representative.

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