

BGSA14M3N10

Ultra-low R_{ON} and C_{OFF} antenna tuning SP4T

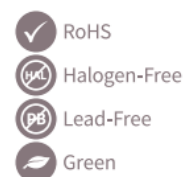
Features

- Low R_{ON} resistance of 1.1 Ω in ON state
- Low C_{OFF} capacitance of 116 fF in OFF state
- RF operating voltage handling 45 V in OFF state
- MIPI RFFE 2.1 control interface
- Single V_{IO} supply supporting both 1.2 V and 1.8 V
- 4 default USID addresses via external USID_SEL pin
- External USID_SEL pin enabling 4 default USID addresses
- 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



Product validations

- Qualified for industrial applications according to the relevant tests of JEDEC47/20/22.

Description

The BGSA14M3N10 is a very compact Single Pole Four Throw (SP4T) Antenna tuning switch optimized for RF applications up to 7.125 GHz.

The BGSA14M3N10 offers a powerful combination of low R_{ON} and C_{OFF} together with a high RF voltage ruggedness, making it perfect fit for switching any reactive components such as inductors and capacitors without significant losses.

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Block diagram and ordering information

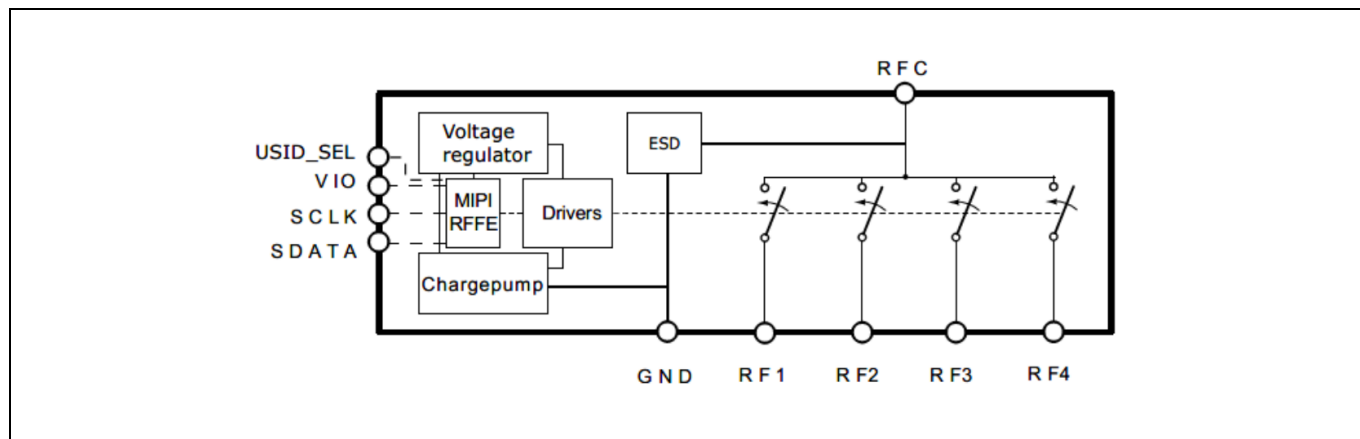


Figure 1 BGSA149MN10 Block diagram

Table 1 Ordering Information

Type	Marking	Package	Product name
BGSA14M3N10	M3	TSNP-10-9	BGSA 14M3N10 E6327

The full datasheet for this product is available under NDA.

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

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