BGSA149MN10

Ultra small antenna tuning SP4T with resonance stoppers

Features

- Low R_{ON} resistance of 1.5 Ω in ON state
- Low C_{OFF} capacitance of 80 fF in OFF state
- RF operating voltage handling 50 V in OFF state
- MIPI RFFE 2.1 control interface
- Support both 1.8V and 1.2V V_{IO} operation
- 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)

RoHS
Halogen-Free
Lead-Free
Green

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 BGSA149MN10 is a single-pole four throws (SP4T) antenna tuning switch optimized for RF applications up to 7.125GHz. The BGSA149MN10 is made of 4 low ON resistance / low OFF capacitance series switches and 4 shunt to ground switches enabling on-demand open-reflective or short-reflective OFF ports behaviour. This last feature is of great value to reduce antenna engineer development time in case of unwanted antenna resonance or to improve antenna efficiency with less component tuning effort.

Block diagram and ordering information

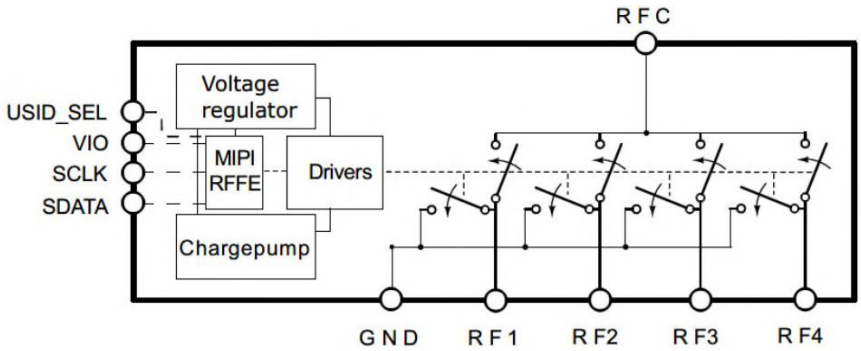

Figure 1 BGSA149MN10 Block diagram

Table 1 Ordering Information

Type	Marking	Package	Product name
BGSA149MN10	A9	TSNP-10-9	BGSA 149MN10 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.

Edition 2026-09-03

Published by
Infineon Technologies AG
81726 München, Germany

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Document reference: xxx