

BGSA146MN10

Ultra high RF voltage antenna tuning SP4T with resonance stoppers

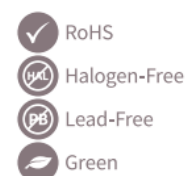
Features

- Very low ON resistance of $1.95\ \Omega$
- Ultra low OFF capacitance of 68 fF
- RF operating voltage handling of 80 V in OFF state
- MIPI RFFE v2.1 control interface
- Supports both 1.8 V and 1.2 V VIO 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)



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 BGSA146MN10 is a single-pole four throws (SP4T) antenna tuning switch optimized for RF applications up to 7.125 GHz. The BGSA146MN10 is made of 4 low ON resistance / low OFF capacitance series switches and 4 shunt to ground switches enabling ondemand open-reflective or short-reflective OFF ports behavior. This last feature is of great value to reduce antenna engineers development time in case of unwanted antenna resonance or to improve antenna efficiency with less component tuning effort.

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Block diagram and ordering information

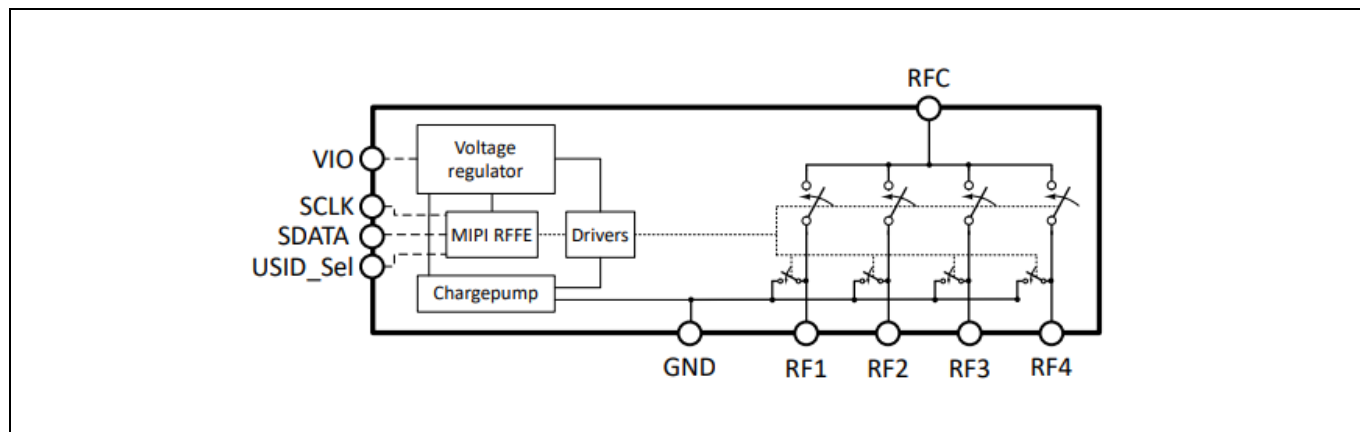


Figure 1 BGSA146MN10 Block diagram

Table 1 Ordering Information

Type	Marking	Package	Product name
BGSC146MN10	M6	TSNP-10-9	BGSA 146MN10 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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