

BGSA148MN10

Ultra small antenna tuning SP4T with resonance stoppers

Features

- Ultra low R_{ON} resistance of 0.8 Ω in ON state
- Low C_{OFF} capacitance of 155 fF in OFF state
- RF operating voltage handling 45 V in OFF state
- MIPI RFFE 2.1 control interface
- Support both 1.8V and 1.2V 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



Description

The BGSA148MN10 is a single-pole four throws (SP4T) antenna tuning switch optimized for RF applications up to 7.125GHz. The BGSA148MN10 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.

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Block diagram and ordering information

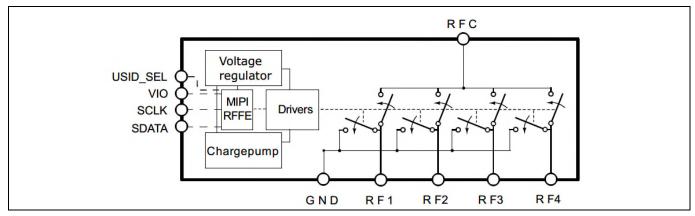


Figure 1 BGSA148MN10 Block diagram

Table 1 Ordering Information

Туре	Marking	Package	Product name
BGSA148MN10	A8	TSNP-10-9	BGSA 148MN10 E6327

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