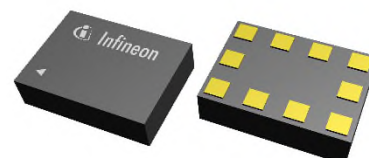


BGSA144ML10

Ultra high RF voltage antenna tuning SP4T

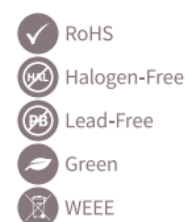
Features

- Low R_{ON} resistance of 1.74Ω at each RF port in ON state
- Ultra low C_{OFF} capacitance of 89 fF in OFF state
- Individually controlled reflective open or short to ground OFF ports to eliminate unwanted antenna resonances
- High RF operating voltage handling 80 V in OFF state
- MIPI RFFE 2.1 compliant control interface
- External USID_SEL pin enabling 4 default USID addresses
- Small form factor 1.1 mm x 1.5 mm (MSL1, 260 °C per JEDEC J-STD-020)



Potential applications

- Impedance, Antenna and Inductance Tuning
- Tunable Filters



Description

The BGSA144ML10 is a single-pole four throws (SP4T) Antenna Tuning switch optimized for RF applications up to 7.125 GHz.

The BGSA144ML10 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 behavior. 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.

Ultra high RF voltage antenna tuning SP4T

Block diagram and ordering information

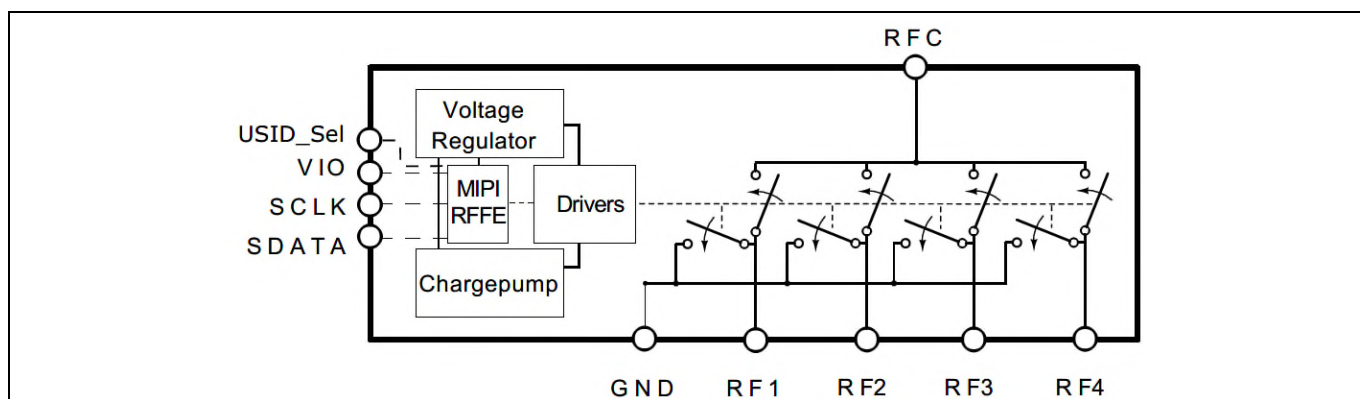


Figure 1 BGSA144ML10 Block diagram

Table 1 Ordering Information

Type	Marking	Package	Product name
BGSA144ML10	A4	TSLP-10-3	BGSA 144ML10 E6327

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