

BGSC4331MN10

Ultra compact 40V_{RF} switch+ C-tuner combo

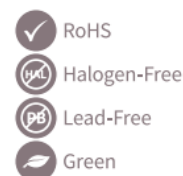
Features

- 0.2 - 3.5 pF 8 steps tunable capacitor with bypass switch
- 3 ultra low R_{ON} RF switch throws of 1.25 Ω in ON state
- RF operating voltage handling 40 V in OFF state
- MIPI RFFE 2.1 control interface
- Digital control of the ESD switch enabling an additional shunt to ground throw
- 1.8 V and 1.2 V_{VIO} operation
- Extremely low current consumption of 20 μ A in ACTIVE mode
- Ultra small form factor 0.95 mm x 1.3 mm (MSL1, 260 °C per JEDEC J-STD-020)



Potential applications

- Impedance tuning
- Antenna tuning
- Tunable RF matching
- Tunable filtering



Potential applications

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

Description

The BGSC4331MN10 is a combo of series tunable capacitor and RF switch throws optimized for RF applications.

Block diagram and ordering information

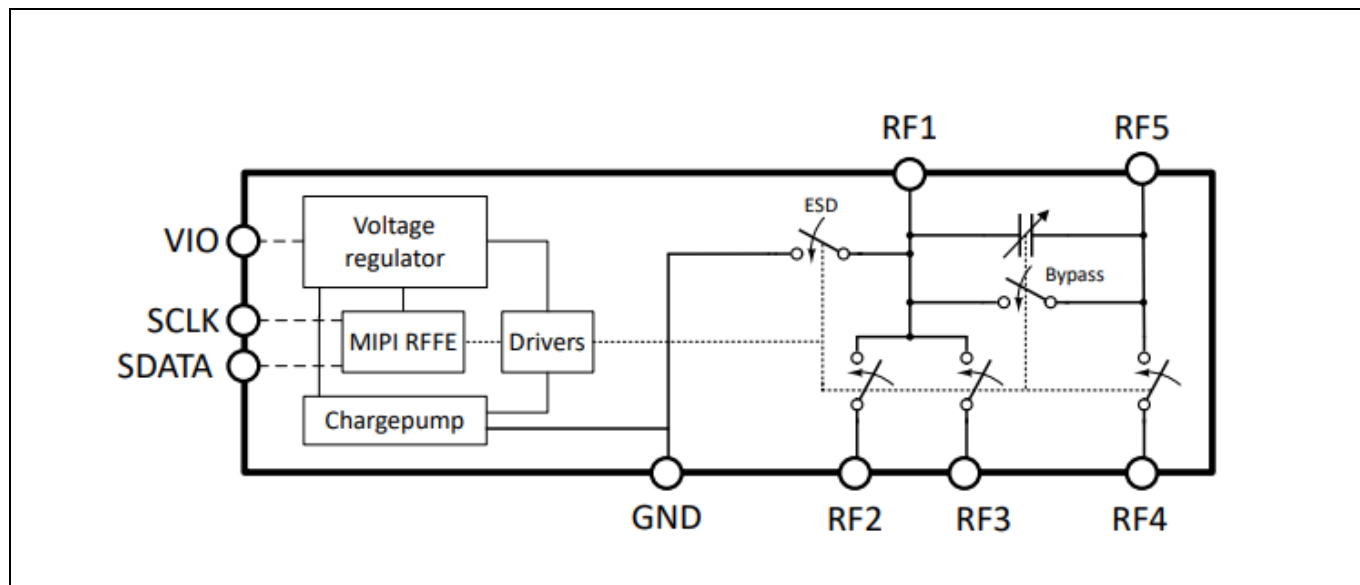


Figure 1 BGSC4331MN10 Block diagram

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

Table 1 Ordering Information

Type	Marking	Package	Product name
BGSC4331MN10	C4	TSNP-10-10	BGSC 4331MN10 E6327

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