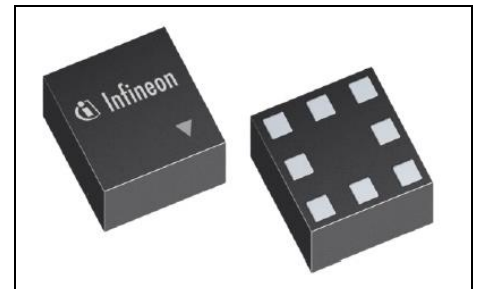


BGSA12UGL8

Low Resistance SPDT Antenna Aperture Switch

Features

- SPDT designed for high-linearity antenna aperture switching and RF tuning applications
- Ultra low R_{ON} resistance of $0.59\ \Omega$ at each port in ON state
- Low C_{OFF} capacitance of 270 fF at each port in OFF state
- > 40V RF voltage OFF state handling
- Low harmonic generation
- Supply voltage range: 1.65 to 3.6 V
- Small form factor 1.1mmx 1.1mm
- Suitable for EDGE/ CDMA/WCDMA/ C2K/ LTE Applications
- RoHS and WEEE compliant package



Description

The BGSA12UGL8 is a versatile Single Pole Double Throw (SPDT) RF antenna aperture switch optimized for low C_{off} as well as low R_{on} enabling applications up to 6.0 GHz. This single supply chip integrates with a 2 bits control logic featuring also a low current standby mode. Unlike GaAs technology, the 0.1 dB compression point exceeds the switch maximum input power level, resulting in linear performance at all signal levels and external DC blocking capacitors at the RF ports are only required if DC voltage is applied externally. Due to its very high RF voltage ruggedness, it is suited for switching any reactive devices such as inductors and capacitors in RF matching circuits without significant losses in quality factors.

BGSA12UGL8

Low Resistance SPDT Antenna Aperture Switch

Block diagram and ordering information

Block diagram and ordering information

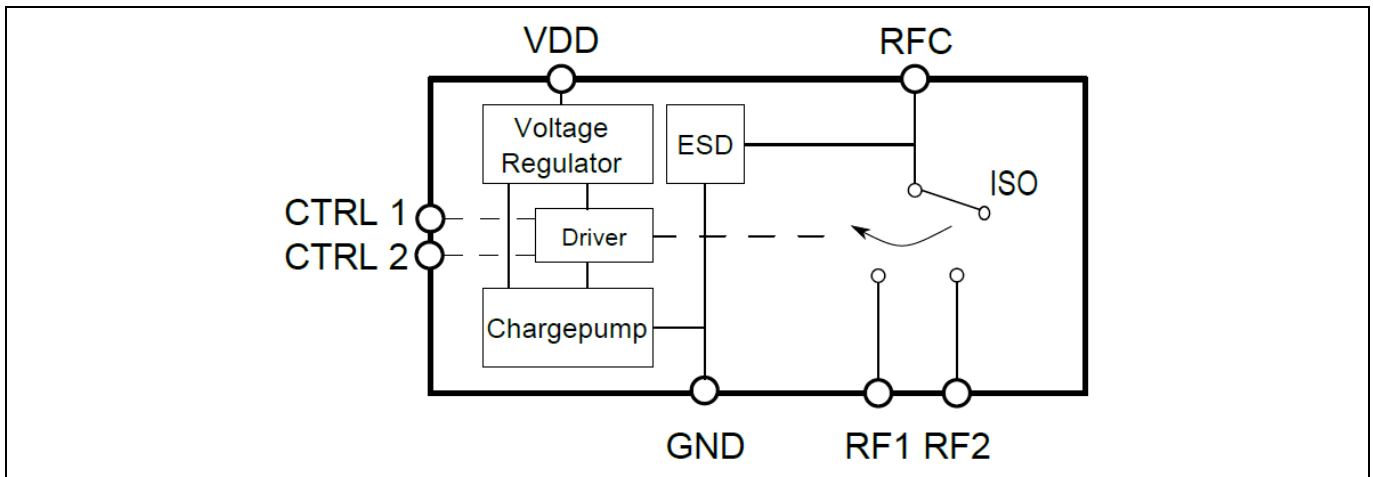


Figure 1 BGSA12UGL8 Block diagram

Table 1 Ordering Information

Type	Package	Marking
BGSA12UGL8	TSLP-8-1	A



WEEE Compliant
Package



Halogen-Free
PB Free



RoHS

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