

BGS14PN10

SP4T high linearity, high power RF Switch

Data Sheet

Revision 1.3 - 2016-08-24

Power Management & Multimarket

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|------|--|
| 1 | Updated title |

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Confidential

BGS14PN10 SP4T high linearity, high power RF Switch

1 Features

- High max RF power: 40 dBm CW @ 900 MHz, room temperature
- Two ultra-low loss ports (RF1 and RF3):
 - 0.19 dB @ f=0.9 GHz, P_{IN}=38 dBm
 - $0.29 \, dB \, @ f=1.9 \, GHz, P_{IN}=38 \, dBm$
 - 0.51 dB @ f=2.7 GHz, P_{IN} =33 dBm
 - $1.20 \, dB \, @ \, f=3.8 \, GHz, \, P_{IN}=33 \, dBm$
 - 1.90 dB @ f=5.8 GHz, P_{IN}=33 dBm
- Two low loss ports (RF2 and RF4):
 - 0.32 dB @ f=0.9 GHz, P_{IN}=38 dBm
 - $0.40 \, dB \, @ f=1.9 \, GHz, P_{IN}=38 \, dBm$
 - 0.64 dB @ f=2.7 GHz, P_{IN} =33 dBm
 - 1.19 dB @ f=3.8 GHz, P_{IN} =33 dBm
 - 1.78 dB @ f=5.8 GHz, P_{IN} =33 dBm
- No DC decoupling components required, if no external DC is applied on RF ports
- High ESD robustness
- Low harmonic generation
- · High linearity

RF1/RF3 72 dBm IIP3

RF2/RF4 74 dBm IIP3

- No power supply blocking required
- Supply voltage range: 1.8 to 3.6 V
- No insertion loss change within supply voltage range
- No linearity change within supply voltage range
- Suitable for EDGE / C2K / LTE / WCDMA / SV-LTE Applications
- Mobile cellular Rx/Tx applications, suitable for LTE/3G
- Applicable for main path and entire RF-Front-end without any power restrictions in mobile communication

DL/UL CA and MIMO

Micro/Pico Cells / Cellular base stations

Test equipment

Suitable for SV-LTE

- 0.5 to 6.0 GHz coverage
- Small form factor 1.1 mm x 1.5 mm
- 400 μ m pad pitch
- RoHS and WEEE compliant package







2 Product Description

The BGS14PN10 is a Single Pole Quad Throw (SP4T) RF antenna aperture switch optimized for mobile phone applications up to 6.0 GHz. This single supply chip integrates on-chip CMOS logic driven by a two simple, CMOS or TTL compatible control input signals. 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.

Table 1: Ordering Information

| Туре | Package | Marking | Chip |
|-----------|----------|---------|--------|
| BGS14PN10 | TSNP10-1 | 4P | M4821C |

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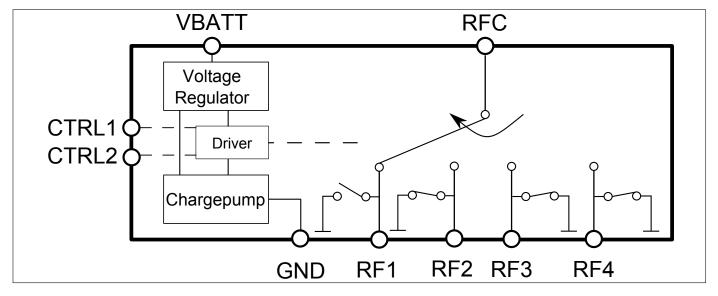


Figure 1: BGS14PN10 block diagram

3 Maximum Ratings

Table 2: Maximum Ratings, Table I at T_A = 25 °C, unless otherwise specified

| Parameter | Symbol | Values | | | Unit | Note / Test Condition |
|------------------------------------|--------------------------------|--------|------|------|------|---------------------------|
| | | Min. | Тур. | Max. | | |
| Frequency Range | f | 0.5 | _ | _ | GHz | 1) |
| Supply voltage | V_{DD} | -0.5 | _ | 3.6 | V | _ |
| Storage temperature range | T _{STG} | -55 | _ | 150 | °C | _ |
| RF input power | P_{RF_TRx} | _ | _ | 40 | dBm | 25% duty cycle |
| ESD capability Human Body Model | V _{ESD_{HBM}} | -1 | _ | +1 | kV | |
| ESD capability ANT port (according | V _{ESD_{ANT}} | -8 | _ | +8 | kV | On application board with |
| IEC 61000-4-2 contact) | | | | | | 27nH shunt inductor |
| Junction temperature | T_j | _ | _ | 125 | °C | _ |

 $^{^{1)}}$ Switch has no highpass response. There is also a high ohmic DC to the RF path. The DC voltage at RF ports V_{RFDC} has to be 0V.

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Table 3: Maximum Ratings, Table II at T_A = 25 °C, unless otherwise specified

| Parameter | Symbol | Values | | Unit | Note / Test Condition | |
|--------------------------------|-------------------|--------|------|------|-----------------------|---------------------------|
| | | Min. | Тур. | Max. | | |
| Maximum DC-voltage on RF-Ports | V_{RFDC} | 0 | _ | 0 | ٧ | No DC voltages allowed on |
| and RF-Ground | | | | | | RF-Ports |
| Control Voltage Levels | V _{CTRL} | -0.7 | _ | 3.3 | V | _ |

4 Operation Ranges

Table 4: Operation Ranges

| Parameter | Symbol | | Values | | Unit | Note / Test Condition | |
|------------------------------|------------------------|------|--------|------|----------------|----------------------------|--|
| | | Min. | Тур. | Max. | | | |
| Supply voltage | V_{DD} | 1.8 | 2.85 | 3.6 | V | _ | |
| Supply current ¹⁾ | I _{DD} | - | 75 | 120 | μ A | _ | |
| Control voltage low | V _{Ctrl,low} | 0 | | 0.45 | V | _ | |
| Control voltage high | V _{Ctrl,high} | 1.2 | 1.8 | 2.85 | V | $V_{Ctrl,high} \ll V_{DD}$ | |
| Control current low | I _{Ctrl,low} | -1 | 0 | 1 | μ A | _ | |
| Control current high | I _{Ctrl,high} | -1 | 0 | 1 | μ A | $V_{Ctrl,high} \ll V_{DD}$ | |
| Ambient temperature | T _A | -40 | 25 | 85 | °C | _ | |
| RF switching time 2) | t _{sw} | 1 | 2 | 5 | μ s | _ | |
| Startup time 2) | t _{sw} | | 10 | 30 | μ s | _ | |

5 Logic Table

Table 5: Logic Table

| CTRL 1 | CTRL 2 | Mode |
|--------|--------|----------------------|
| 0 | 0 | RF1 connected to ANT |
| 0 | 1 | RF2 connected to ANT |
| 1 | 0 | RF3 connected to ANT |
| 1 | 1 | RF4 connected to ANT |

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 $^{^{1)}}T_A$ = -30 °C - +85 °C, V_{BATT} = 1.8 - 3.6 V $^{2)}$, Represents actual alpha status. To be updated.



6 RF Characteristics for RF1 and RF3

Table 6: RF Specifications

| Parameter | Symbol | Values | | | Unit | Note / Test Condition | | | |
|---------------------------------|--------|--------|------|------|------|---|--|--|--|
| | | Min. | Тур. | Max. | | | | | |
| Insertion Loss | 1 | - | | | | | | | |
| 698 - 960 MHz | | _ | 0.18 | 0.26 | dB | | | | |
| 1710 - 1980 MHz | ļ ,, | _ | 0.29 | 0.36 | dB | - | | | |
| 1981 - 2170 MHz | - IL | _ | 0.30 | 0.41 | dB | - | | | |
| 2171 - 2690 MHz | | _ | 0.51 | 0.68 | dB | | | | |
| 3400 - 3800 MHz | | _ | 1.20 | 1.40 | dB | | | | |
| 5150 - 5850 MHz | | _ | 1.90 | 2.35 | dB | $V_{DD} = 1.8 - 3.6 V$ | | | |
| Return Loss | | • | | | | $T_{A} = -30 \dots +85 ^{\circ}\text{C},$ | | | |
| All Ports @ 698 - 915 MHz | RL | 23 | 30 | _ | dB | $Z_0 = 50 \Omega$, | | | |
| All Ports @ 1710 - 1980 MHz |] nL | 16 | 19 | _ | dB | P_{IN} up to 38 dBm | | | |
| All Ports @ 1981 - 2170 MHz | | 14 | 17 | - | dB | | | | |
| All Ports @ 2171 - 2690 MHz | | 11 | 12 | _ | dB | | | | |
| All Ports @ 3400 - 3800 MHz | | 7 | 8 | _ | dB | | | | |
| All Ports @ 5150 - 5850 MHz | | 6 | 7 | _ | dB | | | | |
| Isolation RFC | | | • | | | | | | |
| 698 - 915 MHz | | 34 | 41 | _ | dB | | | | |
| 1710 - 1980 MHz | ISO | 27 | 32 | _ | dB | | | | |
| 1981 - 2170 MHz | 150 | 26 | 30 | - | dB | | | | |
| 2171 - 2690 MHz | | 24 | 28 | _ | dB | | | | |
| 3400 - 3800 MHz | | 20 | 24 | _ | dB | | | | |
| 5150 - 5850 MHz | | 15 | 18 | _ | dB | | | | |
| Isolation RF1,2,3,4 - RF4,3,2,1 | | | • | | | | | | |
| 698 - 915 MHz | | 43 | 50 | _ | dB | | | | |
| 1710 - 1980 MHz | ISO | 34 | 38 | _ | dB | | | | |
| 1981 - 2170 MHz | 130 | 33 | 36 | _ | dB | | | | |
| 2170 - 2690 MHz | | 30 | 33 | _ | dB | | | | |
| 3400 - 3800 MHz | | 24 | 28 | _ | dB | | | | |
| 5150 - 5850 MHz | | 18 | 21 | - | dB | | | | |

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7 RF Characteristics for RF2 and RF4

Table 7: RF Specifications

| Parameter | Symbol | Values | | | Unit | Note / Test Condition | |
|-----------------------------|-------------|--------|------|------|------|---|--|
| | | Min. | Тур. | Max. | | | |
| Insertion Loss | • | | | · | | | |
| 698 - 960 MHz | | _ | 0.30 | 0.40 | dB | | |
| 1710 - 1980 MHz | IL. | _ | 0.40 | 0.50 | dB | | |
| 1981 - 2170 MHz |] <i>IL</i> | _ | 0.41 | 0.54 | dB | | |
| 2171 - 2690 MHz | | _ | 0.64 | 0.80 | dB | | |
| 3400 - 3800 MHz | | _ | 1.19 | 1.45 | dB | | |
| 5150 - 5850 MHz | | _ | 1.78 | 2.09 | dB | $V_{DD} = 1.8 - 3.6 V$, | |
| Return Loss | • | | | • | | $T_A = -30 \dots +85 ^{\circ}\text{C},$ | |
| All Ports @ 698 - 915 MHz | RL | 23 | 27 | _ | dB | $Z_0 = 50 \Omega$, | |
| All Ports @ 1710 - 1980 MHz | | 17 | 20 | _ | dB | P_{IN} up to 38 dBm | |
| All Ports @ 1981 - 2170 MHz | | 14 | 18 | _ | dB | | |
| All Ports @ 2171 - 2690 MHz | | 11 | 15 | _ | dB | | |
| All Ports @ 3400 - 3800 MHz | | 7 | 9 | _ | dB | | |
| All Ports @ 5150 - 5850 MHz | | 6 | 8 | _ | dB | | |
| Isolation RFC | | | | | | | |
| 698 - 915 MHz | | 34 | 41 | _ | dB | | |
| 1710 - 1980 MHz | ISO | 27 | 32 | _ | dB | | |
| 1981 - 2170 MHz | 130 | 26 | 30 | _ | dB | | |
| 2171 - 2690 MHz | | 24 | 28 | _ | dB | | |
| 3400 - 3800 MHz | | 20 | 24 | _ | dB | | |
| 5150 - 5850 MHz | | 14 | 18 | _ | dB | | |
| Isolation RF1,2,3 - RF3,2,1 | | | | | | | |
| 698 - 915 MHz | | 43 | 50 | _ | dB | | |
| 1710 - 1980 MHz | ISO | 34 | 38 | _ | dB | | |
| 1981 - 2170 MHz | 130 | 33 | 36 | _ | dB | 1 | |
| 2170 - 2690 MHz | | 30 | 33 | _ | dB | | |
| 3400 - 3800 MHz | | 24 | 28 | _ | dB | | |
| 5150 - 5850 MHz | | 18 | 21 | _ | dB | | |

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8 RF large signal parameter

Table 8: RF large signal specifications for RF1 and RF3

| Parameter | Symbol | | Values | | | Note / Test Condition | |
|--------------------------------|--------------------------------|------|--------|------|-----|----------------------------|--|
| | | Min. | Тур. | Max. | | | |
| Max. RF input power | _ | _ | - | 38 | dBm | for typical H_x behavior | |
| Harmonic Generation up to | ⊥ 2.75 GHz ^{(1,2} | ,3) | | | | | |
| Second Order Harmonics | P _{H2} | - | -100 | _ | dBc | 25 dBm, 50Ω, CW mode | |
| Third Order Harmonics | P _{H3} | _ | -115 | _ | dBc | 25 dBm, 50Ω, CW mode | |
| All RF Ports | P _{Hx} | - | -100 | _ | dBc | 25 dBm, 50Ω, CW mode | |
| Intermodulation Distortion II | MD2 (1,2,3) | | ' | | | | |
| IIP2, low | IIP2,I | - | 110 | _ | dBm | HDO and Plant Lable O | |
| IIP2, high | IIP2,h | - | 125 | _ | dBm | IIP2 conditions table 8 | |
| Intermodulation Distortion II | /ID3 (1,2,3) | | | | | | |
| IIP3 | IIP3 | - | 72 | _ | dBm | IIP3 conditions table 9 | |
| SV LTE Intermodulation (1,2,3) | | | • | • | • | | |
| IIP3,SVLTE | IIP3,SV | _ | 73 | _ | dBm | SV-LTE conditions table 10 | |

 $^{^{1)}}$ Terminating Port Impedance: Z_0 = 50 Ω $^{2)}$ Supply Voltage: V_{DD} = 1.8 - 3.6 V $^{3)}$ On application board without any matching components

Table 9: RF large signal specifications for RF2 and RF4

| Parameter | Symbol | | Values | | Unit | Note / Test Condition | |
|--------------------------------|-----------------------------|------|--------|------|------|----------------------------|--|
| | | Min. | Тур. | Max. | | | |
| Max. RF input power | _ | - | _ | 38 | dBm | for typical H_x behavior | |
| Harmonic Generation up to 1 | 2.75 GHz ^(1,2,3) | | | | | | |
| Second Order Harmonics | P _{H2} | _ | -105 | _ | dBc | 25 dBm, 50Ω, CW mode | |
| Third Order Harmonics | P _{H3} | _ | -105 | _ | dBc | 25 dBm, 50Ω, CW mode | |
| All RF Ports | P _{Hx} | _ | -105 | _ | dBc | 25 dBm, 50Ω, CW mode | |
| Intermodulation Distortion IM | ID2 ^(1,2,3) | | | | | | |
| IIP2, low | IIP2,I | _ | 110 | _ | dBm | UDO liti t-l-l- O | |
| IIP2, high | IIP2,h | _ | 130 | _ | dBm | IIP2 conditions table 8 | |
| Intermodulation Distortion IM | ID3 ^(1,2,3) | • | • | | | | |
| IIP3 | IIP3 | _ | 74 | _ | dBm | IIP3 conditions table 9 | |
| SV LTE Intermodulation (1,2,3) | | • | , | | | | |
| IIP3,SVLTE | IIP3,SV | _ | 74 | _ | dBm | SV-LTE conditions table 10 | |

 $^{^{1)}}$ Terminating Port Impedance: $Z_0 = 50~\Omega$ $^{2)}$ Supply Voltage: $V_{DD} = 1.8 - 3.6~V$ $^{3)}$ On application board without any matching components

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Table 10: IIP2 conditions table

| Band | In-Band Frequency | Blocker Frequency 1 | Blocker Power 1 | Blocker Frequency 2 | Blocker Power 2 |
|-------------|-------------------|---------------------|-----------------|---------------------|-----------------|
| | [MHz] | [MHz] | [dBm] | [MHz] | [dBm] |
| Band 1 Low | 2140 | 1950 | 20 | 190 | -15 |
| Band 1 High | 2140 | 1950 | 20 | 4090 | -15 |
| Band 5 Low | 881.5 | 836.5 | 20 | 45 | -15 |
| Band 5 High | 881.5 | 836.5 | 20 | 1718 | -15 |

Table 11: IIP3 conditions table

| Band | In-Band Frequency | Blocker Frequency 1 | Blocker Power 1 | Blocker Frequency 2 | Blocker Power 2 |
|--------|-------------------|---------------------|-----------------|---------------------|-----------------|
| | [MHz] | [MHz] | [dBm] | [MHz] | [dBm] |
| Band 1 | 2140 | 1950 | 20 | 1760 | -15 |
| Band 5 | 881.5 | 836.5 | 20 | 791.5 | -15 |

Table 12: SV-LTE conditions table

| Band | In-Band Frequency | Blocker Frequency 1 | Blocker Power 1 | Blocker Frequency 2 | Blocker Power 2 |
|---------|-------------------|---------------------|-----------------|---------------------|-----------------|
| | [MHz] | [MHz] | [dBm] | [MHz] | [dBm] |
| Band 5 | 872 | 827 | 23 | 872 | 14 |
| Band 13 | 747 | 786 | 23 | 747 | 14 |
| Band 20 | 878 | 833 | 23 | 2544 | 14 |

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9 Package Outline and Pin Configuration

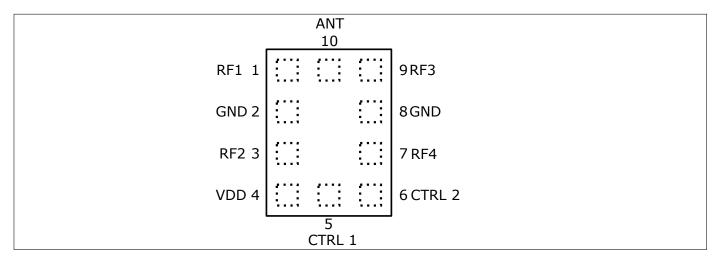


Figure 2: Pinout (top view)

Table 13: Pin Description

| Pin No. | Name | Pin | Buffer | Function |
|---------|--------|------|--------|---------------------|
| | | Туре | Type | |
| 1 | RF1 | I/O | | RF1 |
| 2 | GND | GND | | Ground |
| 3 | RF2 | I/O | | RF2 |
| 4 | VDD | PWR | | Supply voltage |
| 5 | CTRL 1 | I | | Control Pin 1 |
| 6 | CTRL 2 | I | | Control Pin 2 |
| 7 | RF4 | I/O | | RF4 |
| 8 | GND | GND | | Ground |
| 9 | RF3 | I/O | | RF3 |
| 10 | ANT | I/O | | Common RF / Antenna |

Table 14: Mechanical Data

| Parameter | Symbol | Value | Unit |
|-------------|--------|----------------|-----------------|
| X-Dimension | X | 1.1 ± 0.05 | mm |
| Y-Dimension | Y | 1.5 ± 0.05 | mm |
| Size | Size | 1.65 | mm ² |
| Height | Н | 0.375 | mm |

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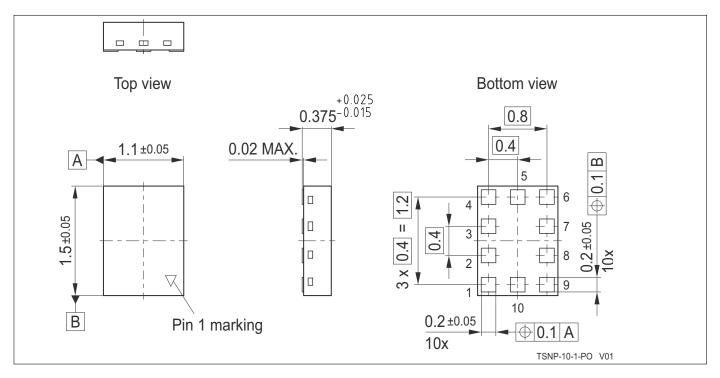


Figure 3: Package Dimensions Drawing

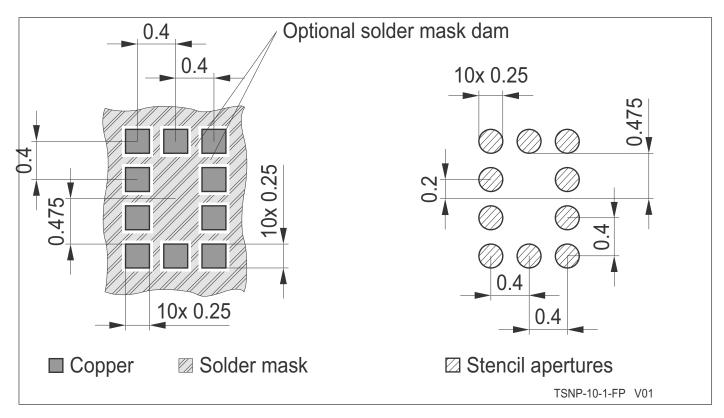


Figure 4: Land pattern and stencil mask

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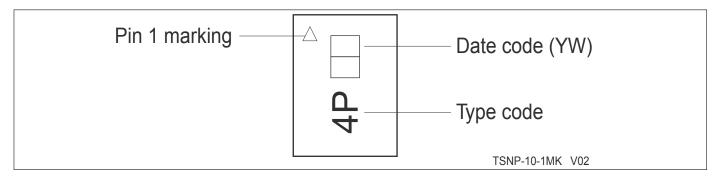


Figure 5: Marking

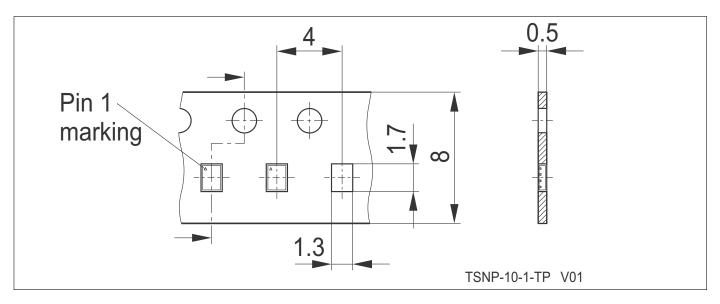


Figure 6: Tape drawing

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