



Infineon's RF discretés

Continuous and reliable solutions

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Infineon offers semiconductor solutions for automotive, industrial, mobile, wireless, consumer, chip-card and security applications.

As part of a broad range of products setting performance standards in targeted applications, the RF discretés have paved the way in multiple radio frequency segments for over a decade by offering from Best in Class Noise figure (Nf) to high linearity and ease of use RF bipolar transistors and MMIC LNAs based on SiGe:C.

Our vast portfolios and solutions offer our customers with supply continuity; they provide with suitable alternatives to existing architectures and bridge the gaps that may occur during withdrawal from our competitor's product lifecycle management such as Renesas.

System sensitivity improvement, a worldwide field application and sales team support for a broad range of applications and a long term supply commitment, are among the key differentiators to our customers supporting the system needs for a broad range of radio frequency applications.

Infineon RF and Sensors offers a variety of solutions from standard RF discrete components such as transistors and diodes to an advanced portfolio of state-of-the-art, innovative and differentiated products including application specific Microwave Monolithic Integrated Circuits (MMICs), millimeter-wave transceivers, RF power amplifiers, sensors and ESD protection components.

Our products stand out for their

- > Reliability
- > Benchmark quality
- > Product longevity and supply sustainability
- > Innovative and leading-edge technologies in analog and mixed signal, RF and power as well as embedded control
- > Performance for improved interference immunity and stable receiving and transmission
- > Broader portfolio for versatility
- > Supply security
- > Design-in and sales support

Applications

- > GPS and SDARS systems
- > WiFi for 2/3/4 LTE bands
- > Cordless and Walkie Talkie
- > Bluetooth
- > CA TV
- > Mobile devices



RF switches



| Renesas | Infineon | Pin to pin | Package |
|------------|--------------|------------|----------|
| UPG2422TK | BGS12S3N6 | No | TSNP-6-6 |
| UPG2415TK | BGS12S3N6 | No | TSNP-6-6 |
| UPG2415T6X | BGS12S3N6 | No | TSNP-6-6 |
| UPG2409TB | BGS12PL6 | No | TSLP-6-4 |
| UPG2409T6X | BGS12S3N6 | No | TSNP-6-6 |
| UPD5713TK | BGS12AL7-4/6 | No | TSLP-7-4 |

RF bipolar transistors



| Renesas | Infineon | Pin to pin | Package |
|----------|--------------------|------------|--------------------------|
| NE202930 | BFR193W | Yes | SOT323-3-1 |
| 2SC5754 | BFP540 | No | SOT343-4-2 |
| 2SC5753 | BFR380F | No | TSFP-3-1 |
| 2SC5752 | BFR380F | No | TSFP-3-1 |
| 2SC5751 | BFR380F | No | TSFP-3-1 |
| 2SC5750 | BFR380F | No | TSFP-3-1 |
| 2SC5509 | BFP450 | No | SOT343-4-2 |
| 2SC5508 | BFP420 | No | SOT343-4-2 |
| 2SC5606 | BFR360 BFS481 | No | TSFP-3-1 SOT363-6-1 |
| 2SC5455 | BFP193 BFS483 | No | SOT143-4-1 SOT363-6-1 |
| 2SC5454 | BFP193 | No | SOT143-4-1 |
| 2SC5338 | BFQ19S | No | SOT89-4-2 |
| 2SC5336 | BFQ19S | No | SOT89-4-2 |
| 2SC5015 | BFP182W BFP405 | Yes | SOT343-4-1 |
| 2SC5013 | BFP182W | Yes | SOT343-4-1 |
| 2SC5012 | BFP182W | Yes | SOT343-4-1 |
| 2SC5011 | BFP193W | Yes | SOT343-4-1 |
| 2SC5010 | BFR181W BFR360F | No | SOT343-4-1 |
| 2SC5007 | BFR182W | No | SOT323-3-1 |
| 2SC5006 | BFR193F | No | TSFP-3-1 |
| 2SC4957 | BFP183W | No | SOT343-4-1 |
| 2SC4703 | BFQ19S | Yes | SOT89-4-2 |
| 2SC4536 | BFQ19S | Yes | SOT89-4-2 |
| 2SC4228 | BFR182W | Yes | SOT343-4-1 |
| 2SC4227 | BFP193W BFP196 | No | SOT343-4-1 SOT143-4-2 |
| 2SC4226 | BFR93AW | Yes | SOT323-3-1 |
| 2SC4095 | BFP182R | No | SOT143-4-1 |
| 2SC4094 | BFP193 | No | SOT143-4-1 |
| 2SC4093 | BFP183W | No | SOT343-4-1 |
| 2SC3585 | BFR182 | No | SOT23-3-1 |
| 2SC3583 | BFR183 | No | SOT23-3-4 |
| 2SC3357 | BFQ19S | Yes | SOT89-4-2 |
| 2SC3356 | BFR93A | No | SOT23-3-3 |
| 2SA1978 | BFR35AP | No | SOT23-3-1 |
| 2SA1977 | BFR35AP | No | SOT23-3-1 |
| UPA800T | BFS483 | No | SOT363-6-1 |
| UPA802T | BFS483 | No | SOT363-6-1 |
| UPA806T | BFS481 | No | SOT363-6-1 |
| UPA811T | BFS481 | No | SOT363-6-1 |
| UPA812T | BFS483 | No | SOT363-6-1 |

RF LNAs MMIC



| Renesas | Infineon | Pin to pin | Package |
|-----------|----------|------------|------------|
| UPC2745TB | BGA420 | No | SOT343-4-1 |
| UPC2746TB | BGA420 | No | SOT343-4-1 |
| UPC2748TB | BGA427 | No | SOT343-4-1 |
| UPC2762TB | BGA612 | No | SOT343-4-2 |
| UPC8178TK | BGA416 | No | SOT143-4-1 |
| UPC8179TK | BGA416 | No | SOT143-4-1 |

Where to buy

Infiniteon distribution partners and sales offices:

www.infineon.com/WhereToBuy

Service hotline

Infiniteon offers its toll-free 0800/4001 service hotline as one central number, available 24/7 in English, Mandarin and German.

- > Germany 0800 951 951 951 (German/English)
- > China, mainland 4001 200 951 (Mandarin/English)
- > India 000 800 4402 951 (English)
- > USA 1-866 951 9519 (English/German)
- > Other countries 00* 800 951 951 951 (English/German)
- > Direct access +49 89 234-0 (interconnection fee, German/English)

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