

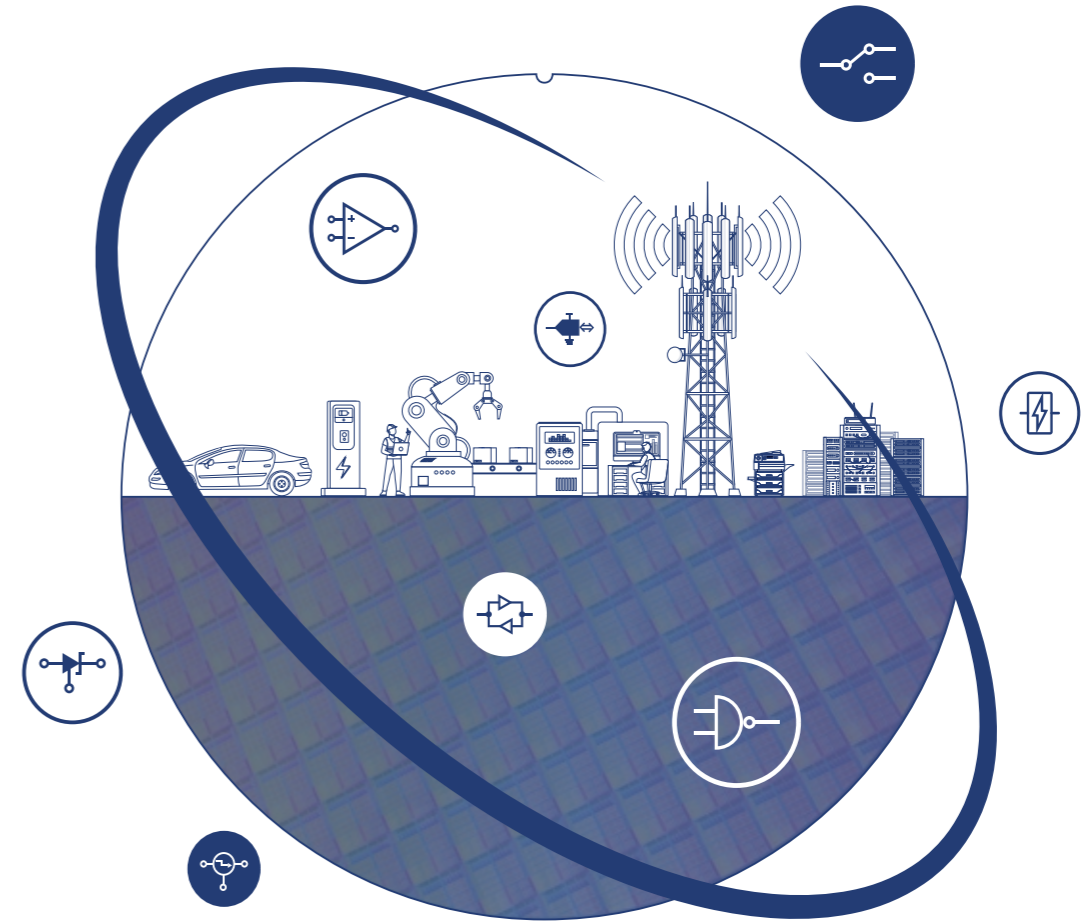
让 润 石 芯 跳 动 在 电 子 产 品 世 界 的 每 个 角 落

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# 产品选型手册

## PRODUCT SELECTION GUIDE

—  
2023.06

— 专注模拟技术 —

Innovation Service

# 公司介绍

## Company profile

江苏润石科技有限公司是一家专注于高性能、高品质模拟/混合信号集成电路研发和销售的高科技半导体设计公司。

公司主要产品线分为两类：信号链和电源管理，其中信号链包含运算放大器、比较器、模拟开关、数据转换器、电平转换、电压基准源、逻辑器件；电源管理包含线性稳压器、DC/DC、负载开关、复位及马达驱动。产品广泛用于汽车电子、新能源、工业控制、消费类电子、医疗设备、安防监控、仪器仪表、智能家居以及信创等应用领域。

公司总部位于江苏省无锡市，扎根本土，服务全球。公司依托无锡市良好的集成电路产业环境，整合上下游优势资源，致力于汽车电子、新能源、工业控制、消费类电子、物联传感和医疗电子等领域的模拟芯片产品的研发设计，目前已完成多个门类的芯片设计和开发；同时积极布局新能源汽车领域，全力推进国产车规级模拟芯片的研发和生产，并通过车用IC可靠性 AEC-Q100 认证，以及ISO26262功能安全管理体系认证！

公司在深圳设立全球销售和技术服务中心，在国内的北京、上海、天津、郑州、杭州、成都、武汉、合肥、青岛，中国台湾以及海外的韩国首尔等均地均有驻地人员就近提供全方位的服务。通过几年的耕耘，逐渐形成了较为成熟的国内外市场销售体系和健全完善的售前、售中、售后技术服务体系，拥有众多国内外行业标杆企业客户。同时也建立了快速的响应机制，及时了解客户需求、市场前景和行业趋势。

江苏润石始终坚持“自主创新，品质至上，团结协作，成就客户”为公司的核心价值，不断地推出具备更强竞争力和良好市场前景的模拟/混合信号芯片产品，携手客户共同发展，共创辉煌，让润石芯跳动在电子产品世界的每个角落，矢志成为全球一流的模拟芯片公司！

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# 运算放大器和比较器

## OPERATIONAL AMPLIFIER & COMPARATOR

### 精密运算放大器 | Precision Operational Amplifier

| Part Number | Amplifiers per Package | Vos(Offset Voltage) Max@25°C (uV) | TC of Vos Typ (uV/°C) | IB Typ (pA) | Enoise 0.01Hz~10Hz (uVpp) | Enoise Typ@1kHz (nV/√Hz) | Total Supply Voltage (V) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Iq/Amp Typ (uA) | AOL Typ (dB) | CMRR Typ (dB) | Rail-to-Rail I/O | Additional Feature | Operating Temperature Range (°C) | Package                  |
|-------------|------------------------|-----------------------------------|-----------------------|-------------|---------------------------|--------------------------|--------------------------|---------------|----------------------|-----------------|--------------|---------------|------------------|--------------------|----------------------------------|--------------------------|
| RS8501*     | 1                      | 20                                | 0.05                  | 5           | 25                        | —                        | 2.2~5.5                  | 0.015         | 0.01                 | 5               | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |
| RS8502*     | 2                      | 20                                | 0.05                  | 5           | 25                        | —                        | 2.2~5.5                  | 0.015         | 0.01                 | 5               | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L |
| RS8504*     | 4                      | 20                                | 0.05                  | 5           | 25                        | —                        | 2.2~5.5                  | 0.015         | 0.01                 | 5               | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14         |
| RS8511      | 1                      | 40                                | 0.05                  | 50          | 1.6                       | 70                       | 2.3~5.5                  | 0.35          | 0.17                 | 60              | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |
| RS8512      | 2                      | 40                                | 0.05                  | 50          | 1.6                       | 70                       | 2.3~5.5                  | 0.35          | 0.17                 | 60              | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L |
| RS8514      | 4                      | 40                                | 0.05                  | 50          | 1.6                       | 70                       | 2.3~5.5                  | 0.35          | 0.17                 | 60              | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14         |
| RS8521      | 1                      | 5                                 | 0.005                 | 10          | 3.2                       | 140                      | 2.3~5.5                  | 0.35          | 0.17                 | 60              | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |
| RS8522      | 2                      | 5                                 | 0.005                 | 10          | 3.2                       | 140                      | 2.3~5.5                  | 0.35          | 0.17                 | 60              | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L |
| RS8524      | 4                      | 5                                 | 0.005                 | 10          | 3.2                       | 140                      | 2.3~5.5                  | 0.35          | 0.17                 | 60              | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14         |
| RS8538      | 1                      | 5                                 | 0.005                 | 50          | 1.3                       | 60                       | 2.5~5.5                  | 1.6           | 0.7                  | 180             | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |
| RS8539      | 2                      | 5                                 | 0.005                 | 50          | 1.3                       | 60                       | 2.5~5.5                  | 1.6           | 0.7                  | 180             | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8            |
| RS8551      | 1                      | 5                                 | 0.005                 | 50          | 0.75                      | 35                       | 2.7~5.5                  | 4.5           | 2.7                  | 640             | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |
| RS8551-Q1   | 1                      | 50                                | 0.05                  | 50          | 0.93                      | 45                       | 2.7~5.5                  | 4.3           | 2.5                  | 650             | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOT23-5                  |
| RS8552      | 2                      | 5                                 | 0.005                 | 50          | 0.75                      | 35                       | 2.7~5.5                  | 4.5           | 2.7                  | 640             | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L |
| RS8554      | 4                      | 5                                 | 0.005                 | 50          | 0.75                      | 35                       | 2.7~5.5                  | 4.5           | 2.7                  | 640             | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14         |
| RS8557      | 1                      | 20                                | 0.03                  | 50          | 0.93                      | 45                       | 2.7~5.5                  | 4.3           | 2.5                  | 650             | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |
| RS8557-Q1   | 1                      | 50                                | 0.05                  | 50          | 0.93                      | 45                       | 2.7~5.5                  | 4.3           | 2.5                  | 650             | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOT23-5                  |
| RS8558      | 2                      | 20                                | 0.03                  | 50          | 0.93                      | 45                       | 2.7~5.5                  | 4.3           | 2.5                  | 650             | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8            |
| RS8559      | 4                      | 20                                | 0.03                  | 50          | 0.93                      | 45                       | 2.7~5.5                  | 4.3           | 2.5                  | 650             | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14         |
| RS8561      | 1                      | 20                                | 0.1                   | 100         | 0.48                      | 32                       | 2.9~5.5                  | 11            | 8.5                  | 1300            | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8,SOT23-5    |

## 精密运算放大器 | Precision Operational Amplifier

| Part Number | Amplifiers per Package | Vos(Offset Voltage) Max@25°C (uV) | TC of Vos Typ (uV/°C) | IB Typ (pA) | Enoise 0.01Hz~10Hz (uVpp) | Enoise Typ@1kHz (nV/√Hz) | Total Supply Voltage (V) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Iq/Amp Typ (uA) | AOL Typ (dB) | CMRR Typ (dB) | Rail-to-Rail I/O | Additional Feature | Operating Temperature Range (°C) | Package          |
|-------------|------------------------|-----------------------------------|-----------------------|-------------|---------------------------|--------------------------|--------------------------|---------------|----------------------|-----------------|--------------|---------------|------------------|--------------------|----------------------------------|------------------|
| RS8562      | 2                      | 20                                | 0.1                   | 100         | 0.48                      | 32                       | 2.9~5.5                  | 11            | 8.5                  | 1300            | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8564      | 4                      | 20                                | 0.1                   | 100         | 0.48                      | 32                       | 2.9~5.5                  | 11            | 8.5                  | 1300            | 120          | 120           | In,Out           | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS8581      | 1                      | 5                                 | 0.1                   | 50          | 0.8                       | 35                       | 2.7~5.5                  | 5             | 3.4                  | 730             | 130          | 130           | In,Out           | EMI Hardened       | -40 to 125                       | SOT23-5          |
| RS8621      | 1                      | 400                               | 5                     | 10          | 4.3                       | 14                       | 5~32                     | 2             | 1.2                  | 1000            | 150          | 115           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8           |
| RS8622      | 2                      | 400                               | 5                     | 10          | 4.3                       | 14                       | 5~32                     | 2             | 1.2                  | 1000            | 150          | 115           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8631*     | 1                      | 30                                | 0.01                  | 50          | 0.75                      | 45                       | 3.3~36                   | 0.37          | 0.12                 | 125             | 120          | 120           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8632*     | 2                      | 30                                | 0.01                  | 50          | 0.75                      | 45                       | 3.3~36                   | 0.37          | 0.12                 | 125             | 120          | 120           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8634*     | 4                      | 30                                | 0.01                  | 50          | 0.75                      | 45                       | 3.3~36                   | 0.37          | 0.12                 | 125             | 120          | 120           | Out              | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS8651      | 1                      | 50                                | 0.1                   | 100         | 0.6                       | 30                       | 3.3~32                   | 2             | 1                    | 900             | 130          | 120           | Out              | EMI Hardened       | -40 to 85                        | SOIC-8,MSOP-8    |
| RS8652      | 2                      | 50                                | 0.15                  | 100         | 0.6                       | 30                       | 3.3~32                   | 2             | 1                    | 900             | 130          | 120           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8654      | 4                      | 50                                | 0.15                  | 100         | 0.6                       | 30                       | 3.3~32                   | 2             | 1                    | 1000            | 130          | 120           | Out              | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS8661*     | 1                      | 10                                | 0.15                  | 50          | 0.18                      | 10                       | 4.5~36                   | 5             | 1.8                  | 1300            | 130          | 130           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8662*     | 2                      | 10                                | 0.15                  | 50          | 0.18                      | 10                       | 4.5~36                   | 5             | 1.8                  | 1300            | 130          | 130           | Out              | EMI Hardened       | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8664*     | 4                      | 10                                | 0.15                  | 50          | 0.18                      | 10                       | 4.5~36                   | 5             | 1.8                  | 1300            | 130          | 130           | Out              | EMI Hardened       | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS07*       | 1                      | 150                               | 3                     | 1000        | 4                         | 20                       | 5.0~36                   | 1.9           | 1                    | 1000            | 150          | 120           | Out              | CL Hardened        | -40 to 125                       | SOIC-8           |

## 高速运算放大器 | High-Speed Operational Amplifier

| Part Number | Amplifiers per Package | GBW Typ (MHz) | Iq/Amp Typ (mA) | Total Supply Voltage (Min) (V) | Total Supply Voltage (Max) (V) | Vos Max@25°C (mV) | Slew Rate Typ (V/us) | Rail-to-Rail I/O | TC of Vos Typ (uV/°C) | Enoise Typ@1kHz (nV/√Hz) | IB Typ (pA) | AOL Typ (dB) | CMRR Typ (dB) | Additional Feature | Operating Temperature Range (°C) | Package               |
|-------------|------------------------|---------------|-----------------|--------------------------------|--------------------------------|-------------------|----------------------|------------------|-----------------------|--------------------------|-------------|--------------|---------------|--------------------|----------------------------------|-----------------------|
| RS8701      | 1                      | 50            | 7               | 2.2                            | 5.5                            | 0.2               | 40                   | In,Out           | 1.6                   | 4.4                      | 50          | 124          | 100           | Zero-Crossover     | -40 to 125                       | SOT23-5               |
| RS8702      | 2                      | 50            | 7               | 2.2                            | 5.5                            | 0.2               | 40                   | In,Out           | 1.6                   | 4.4                      | 50          | 124          | 100           | Zero-Crossover     | -40 to 125                       | SOIC-8,MSOP-8         |
| RS8702      | 4                      | 50            | 7               | 2.2                            | 5.5                            | 0.2               | 40                   | In,Out           | 1.6                   | 4.4                      | 50          | 124          | 100           | Zero-Crossover     | -40 to 125                       | SOIC-14               |
| RS8751      | 1                      | 250           | 2.9             | 2.5                            | 5.5                            | 7.5               | 180                  | Out              | 4                     | 8                        | 1           | 110          | 85            | —                  | -40 to 125                       | SOT23-5,SOIC-8        |
| RS8752      | 2                      | 250           | 2.9             | 2.5                            | 5.5                            | 7.5               | 180                  | Out              | 4                     | 8                        | 1           | 110          | 85            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TSSOP-8 |
| RS8754      | 4                      | 250           | 2.9             | 2.5                            | 5.5                            | 7.5               | 180                  | Out              | 4                     | 8                        | 1           | 110          | 85            | —                  | -40 to 125                       | SOIC-14,TSSOP-14      |
| RS8761*     | 1                      | 500           | 8.2             | 2.5                            | 5.5                            | 8                 | 420                  | Out              | 4                     | 5.6                      | 6           | 110          | 85            | —                  | -40 to 125                       | SOT23-5,SOIC-8        |
| RS8762*     | 2                      | 500           | 8.2             | 2.5                            | 5.5                            | 8                 | 420                  | Out              | 4                     | 5.6                      | 6           | 110          | 85            | —                  | -40 to 125                       | SOIC-8,MSOP-8         |
| RS8764*     | 4                      | 500           | 8.2             | 2.5                            | 5.5                            | 8                 | 420                  | Out              | 4                     | 5.6                      | 6           | 110          | 85            | —                  | -40 to 125                       | SOIC-14,TSSOP-14      |

## 通用运算放大器 | General Operational Amplifier

| Part Number | Amplifiers per Package | Vos Max@25°C (mV) | Iq/Amp Typ (uA) | Total Supply Voltage (Min) (V) | Total Supply Voltage (Max) (V) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Rail-to-Rail I/O | TC of Vos Typ (uV/°C) | Enosie Typ@1kHz (nV/√Hz) | IB Typ (pA) | AOL Typ (dB) | CMRR Typ (dB) | Additional Feature | Operating Temperature Range (°C) | Package                      |
|-------------|------------------------|-------------------|-----------------|--------------------------------|--------------------------------|---------------|----------------------|------------------|-----------------------|--------------------------|-------------|--------------|---------------|--------------------|----------------------------------|------------------------------|
| RS121       | 1                      | 5                 | 12              | 2.5                            | 5.5                            | 0.15          | 0.05                 | In,Out           | 3.1                   | 77                       | 1           | 110          | 95            | —                  | -40 to 125                       | SOT23-5                      |
| RS121P      | 1                      | 0.6               | 7.6             | 2.6                            | 5.5                            | 0.1           | 0.04                 | In,Out           | 2.5                   | 98                       | 1           | 104          | 80            | —                  | -40 to 125                       | SOT23-5,SC70-5               |
| RS122       | 2                      | 5                 | 12              | 2.5                            | 5.5                            | 0.15          | 0.05                 | In,Out           | 3.1                   | 77                       | 1           | 110          | 95            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L     |
| RS124       | 4                      | 5                 | 12              | 2.5                            | 5.5                            | 0.15          | 0.05                 | In,Out           | 3.1                   | 77                       | 1           | 110          | 95            | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS221       | 1                      | 3.5               | 26              | 2.5                            | 5.5                            | 0.5           | 0.18                 | In,Out           | 2.9                   | 30                       | 1           | 110          | 90            | —                  | -40 to 125                       | SOT23-5,                     |
| RS222       | 2                      | 3.5               | 26              | 2.5                            | 5.5                            | 0.5           | 0.18                 | In,Out           | 2.9                   | 30                       | 1           | 110          | 90            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L     |
| RS224       | 4                      | 3.5               | 26              | 2.5                            | 5.5                            | 0.5           | 0.18                 | In,Out           | 2.9                   | 30                       | 1           | 110          | 90            | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS321       | 1                      | 4.5               | 60              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2.9                   | 23                       | 1           | 100          | 80            | —                  | -40 to 125                       | SOT23-5                      |
| RS321BK-Q1  | 1                      | 4.5               | 60              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2.9                   | 23                       | 1           | 100          | 80            | —                  | -40 to 125                       | SC70-5                       |
| RS358       | 2                      | 4.5               | 60              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2.9                   | 23                       | 1           | 100          | 80            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L     |
| RS324       | 4                      | 4.5               | 60              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2.9                   | 23                       | 1           | 100          | 80            | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS6331      | 1                      | 3                 | 58              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 1           | 110          | 90            | —                  | -40 to 125                       | SOT23-5                      |
| RS6331P     | 1                      | 0.5               | 85              | 2.1                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 10          | 120          | 95            | —                  | -40 to 125                       | SOT23-5                      |
| RS6331S     | 1                      | 3                 | 58              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 1           | 110          | 90            | Shutdown           | -40 to 125                       | SOT23-6                      |
| RS6332      | 2                      | 3                 | 58              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 1           | 110          | 90            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TSSOP-8        |
| RS6332P     | 2                      | 0.5               | 85              | 2.1                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 10          | 120          | 95            | —                  | -40 to 125                       | SOIC-8,MSOP-8                |
| RS6332S     | 2                      | 3                 | 58              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 1           | 110          | 90            | Shutdown           | -40 to 125                       | MSOP-10                      |
| RS6334      | 4                      | 3                 | 58              | 2.2                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 1           | 110          | 90            | —                  | -40 to 125                       | SOIC-14,TSSOP-14,TQFN3X3-16L |
| RS6334P     | 2                      | 0.8               | 85              | 2.1                            | 5.5                            | 1.1           | 0.5                  | In,Out           | 2                     | 22                       | 10          | 120          | 95            | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS8401*     | 1                      | 3.0               | 20              | 3.0                            | 36                             | 0.23          | 0.11                 | Out              | 3                     | 45                       | 10          | 110          | 110           | —                  | -40 to 125                       | SOT23-5                      |
| RS8402*     | 2                      | 3.0               | 20              | 3.0                            | 36                             | 0.23          | 0.11                 | Out              | 3                     | 45                       | 10          | 110          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8                |
| RS8404*     | 4                      | 3.0               | 20              | 3.0                            | 36                             | 0.23          | 0.11                 | Out              | 3                     | 45                       | 10          | 110          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS8411      | 1                      | 4.0               | 150             | 3.0                            | 36                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOT-23-5                     |
| RS8411BP    | 1                      | 1.5               | 150             | 3.0                            | 36                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOT-23-5                     |
| RS8412      | 2                      | 4.0               | 150             | 3.0                            | 36                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8                |
| RS8412-Q1   | 2                      | 2.0               | 150             | 3.0                            | 32                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8                |
| RS8412P     | 2                      | 1.5               | 150             | 3.0                            | 36                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8                |
| RS8414      | 4                      | 4.0               | 150             | 3.0                            | 36                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS8414P     | 4                      | 1.5               | 150             | 3.0                            | 36                             | 1.2           | 0.67                 | Out              | 3                     | 45                       | 10          | 115          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14             |
| RS8422      | 2                      | 3.0               | 1800            | 4.4                            | 36                             | 5.0           | 3.0                  | Out              | 5.0                   | 44                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8                |
| RS8422P     | 2                      | 1.5               | 1800            | 4.4                            | 36                             | 5.0           | 3.0                  | Out              | 5.0                   | 44                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8                |

## 通用运算放大器 | General Operational Amplifier

| Part Number | Amplifiers per Package | Vos Max@25°C (mV) | Iq/Amp Typ (uA) | Total Supply Voltage (Min) (V) | Total Supply Voltage (Max) (V) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Rail-to-Rail I/O | TC of Vos Typ (uV/°C) | Enoise Typ@1kHz (nV/√Hz) | IB Typ (pA) | AOL Typ (dB) | CMRR Typ (dB) | Additional Feature | Operating Temperature Range (°C) | Package          |
|-------------|------------------------|-------------------|-----------------|--------------------------------|--------------------------------|---------------|----------------------|------------------|-----------------------|--------------------------|-------------|--------------|---------------|--------------------|----------------------------------|------------------|
| RS8424      | 4                      | 3.0               | 1800            | 4.4                            | 36                             | 5.0           | 3.0                  | Out              | 5                     | 44                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS8452      | 2                      | 3.0               | 2750            | 5.0                            | 36                             | 8.0           | 5.0                  | Out              | 5                     | 35                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8452-Q1   | 2                      | 2.3               | 2750            | 5.0                            | 32                             | 8.0           | 5.0                  | Out              | 5                     | 35                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8452P     | 2                      | 1.5               | 2750            | 5.0                            | 36                             | 8.0           | 5.0                  | Out              | 5                     | 35                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8454-Q1   | 4                      | 2.3               | 2750            | 5.0                            | 32                             | 8.0           | 5.0                  | Out              | 5                     | 35                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS8454P     | 4                      | 1.5               | 2750            | 5.0                            | 36                             | 8.0           | 5.0                  | Out              | 5                     | 35                       | 10          | 100          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14 |
| RS8461P     | 1                      | 1.0               | 2200            | 4.5                            | 32                             | 10.0          | 24.0                 | Out              | 3.4                   | 40                       | 10          | 124          | 110           | —                  | -40 to 125                       | SOT23-5          |
| RS8462P     | 2                      | 1.0               | 2200            | 4.5                            | 32                             | 10.0          | 24.0                 | Out              | 3.4                   | 40                       | 10          | 124          | 110           | —                  | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8464P     | 4                      | 1.0               | 2200            | 4.5                            | 32                             | 10.0          | 24.0                 | Out              | 3.4                   | 40                       | 10          | 124          | 110           | —                  | -40 to 125                       | SOIC-14,TSSOP-14 |

## 低噪声运算放大器 | Low Noise Operational Amplifier

| Part Number | Amplifiers per Package | Enoise Typ@1kHz (nV/√Hz) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Iq/Amp Typ (uA) | Total Supply Voltage (Min) (V) | Total Supply Voltage (Max) (V) | Rail-to-Rail I/O | Vos Max@25°C (mV) | TC of Vos Typ (uV/°C) | IB Typ (pA) | AOL Typ (dB) | CMRR Typ (dB) | Additional Feature | Operating Temperature Range (°C) | Package                                     |
|-------------|------------------------|--------------------------|---------------|----------------------|-----------------|--------------------------------|--------------------------------|------------------|-------------------|-----------------------|-------------|--------------|---------------|--------------------|----------------------------------|---|
| RS521       | 1                      | 15                       | 3.6           | 1.8                  | 260             | 2.5                            | 5.5                            | In,Out           | 3                 | 2                     | 1           | 110          | 87            | —                  | -40 to 125                       | SOT23-5                                     |
| RS522       | 2                      | 15                       | 3.6           | 1.8                  | 260             | 2.5                            | 5.5                            | In,Out           | 3                 | 2                     | 1           | 110          | 87            | —                  | -40 to 125                       | SOIC-8,MSOP-8                               |
| RS524       | 4                      | 15                       | 3.6           | 1.8                  | 260             | 2.5                            | 5.5                            | In,Out           | 3                 | 2                     | 1           | 110          | 87            | —                  | -40 to 125                       | SOIC-14,TSSOP-14                            |
| RS621       | 1                      | 11                       | 7             | 3.7                  | 600             | 2.5                            | 5.5                            | In,Out           | 3                 | 2                     | 1           | 106          | 92            | —                  | -40 to 125                       | SOT23-5,SC70-5                              |
| RS621P      | 1                      | 11                       | 7             | 3.7                  | 720             | 2.5                            | 5.5                            | In,Out           | 0.5               | 2                     | 1           | 110          | 96            | —                  | -40 to 125                       | SOT23-5                                     |
| RS621-Q1    | 1                      | 14                       | 7             | 4.3                  | 625             | 2.5                            | 5.5                            | In,Out           | 1.5               | 2.3                   | 1           | 127          | 94            | —                  | -40 to 125                       | SOT23-5                                     |
| RS622       | 2                      | 11                       | 7             | 3.7                  | 600             | 2.5                            | 5.5                            | In,Out           | 3                 | 2                     | 1           | 106          | 92            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TSSOP8 TDFN2X2-8L, TDFN3X3-8L |
| RS622P      | 2                      | 11                       | 7             | 3.7                  | 720             | 2.5                            | 5.5                            | In,Out           | 0.5               | 2                     | 1           | 110          | 96            | —                  | -40 to 125                       | SOIC-8,MSOP-8                               |
| RS624       | 4                      | 11                       | 7             | 3.7                  | 600             | 2.5                            | 5.5                            | In,Out           | 3                 | 2                     | 1           | 106          | 92            | —                  | -40 to 125                       | SOIC-14,TSSOP-14 TDFN3X2-14L,TQFN3X3-16L    |
| RS624P      | 4                      | 11                       | 7             | 3.7                  | 720             | 2.5                            | 5.5                            | In,Out           | 0.5               | 2                     | 1           | 110          | 96            | —                  | -40 to 125                       | SOIC-14,TSSOP-14                            |
| RS721       | 1                      | 9.5                      | 10            | 7                    | 1150            | 2.5                            | 5.5                            | In,Out           | 2.5               | 2.6                   | 1           | 96           | 85            | —                  | -40 to 125                       | SOT23-5,SC70-5,TDFN2X2-6L                   |
| RS721P      | 1                      | 9.5                      | 10            | 6                    | 1100            | 2.5                            | 5.5                            | In,Out           | 0.5               | 2.6                   | 1           | 110          | 97            | —                  | -40 to 125                       | SOT23-5,SC70-5                              |
| RS721P-Q1   | 1                      | —                        | 13            | 8                    | 1150            | 2.7                            | 5.5                            | In,Out           | 1.5               | 2.6                   | 1           | 127          | 90            | —                  | -40 to 125                       | SOT23-5                                     |
| RS721S      | 1                      | 9.5                      | 10            | 7                    | 1150            | 2.5                            | 5.5                            | In,Out           | 2.5               | 2.6                   | 1           | 96           | 85            | —                  | -40 to 125                       | SOT23-6                                     |
| RS722       | 2                      | 9.5                      | 10            | 7                    | 1150            | 2.5                            | 5.5                            | In,Out           | 2.5               | 2.6                   | 1           | 96           | 85            | —                  | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L, TDFN3X3-8L        |
| RS722P      | 2                      | 9.5                      | 10            | 6                    | 1100            | 2.5                            | 5.5                            | In,Out           | 0.5               | 2.6                   | 1           | 110          | 97            | —                  | -40 to 125                       | SOIC-8,MSOP-8                               |
| RS722P-Q1   | 2                      | —                        | 13            | 8                    | 1150            | 2.7                            | 5.5                            | In,Out           | 1.5               | 2.6                   | 1           | 127          | 90            | —                  | -40 to 125                       | SOIC-8,MSOP-8,                              |

## 低噪声运算放大器 | Low Noise Operational Amplifier

| Part Number | Amplifiers per Package | Enoise Typ@1kHz (nV/√Hz) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Iq/Amp Typ (uA) | Total Supply Voltage (Min) (V) | Total Supply Voltage (Max) (V) | Rail-to-Rail I/O | Vos Max@25°C (mV) | TC of Vos Typ (uV/°C) | IB Typ (pA) | AOL Typ (dB) | CMRR Typ (dB) | Additional Feature | Operating Temperature Range (°C) | Package                     |
|-------------|------------------------|--------------------------|---------------|----------------------|-----------------|--------------------------------|--------------------------------|------------------|-------------------|-----------------------|-------------|--------------|---------------|--------------------|----------------------------------|-----------------------------|
| RS724       | 4                      | 9.5                      | 10            | 7                    | 1150            | 2.5                            | 5.5                            | In,Out           | 2.5               | 2.6                   | 1           | 96           | 85            | —                  | -40 to 125                       | SOIC-14,TSSOP-14            |
| RS724P      | 4                      | 9.5                      | 10            | 6                    | 1100            | 2.5                            | 5.5                            | In,Out           | 0.8               | 2.6                   | 1           | 110          | 97            | —                  | -40 to 125                       | SOIC-14,TSSOP-14            |
| RS724-Q1    | 4                      | —                        | 13            | 8                    | 1150            | 2.7                            | 5.5                            | In,Out           | 3                 | 2.6                   | 1           | 127          | 90            | —                  | -40 to 125                       | SOIC-14,TSSOP-14,QFN3x3-16L |
| RS821       | 1                      | 8.5                      | 14            | 10                   | 1900            | 2.5                            | 5.5                            | In,Out           | 2.5               | 1.6                   | 1           | 100          | 88            | —                  | -40 to 125                       | SOT23-5                     |
| RS821S      | 1                      | 8.5                      | 14            | 10                   | 1900            | 2.5                            | 5.5                            | In,Out           | 2.5               | 1.6                   | 1           | 100          | 88            | Shutdown           | -40 to 125                       | SOT23-6                     |
| RS822       | 2                      | 8.5                      | 14            | 10                   | 1900            | 2.5                            | 5.5                            | In,Out           | 2.5               | 1.6                   | 1           | 100          | 88            | —                  | -40 to 125                       | SOIC-8,MSOP-8               |
| RS822S      | 2                      | 8.5                      | 14            | 10                   | 1900            | 2.5                            | 5.5                            | In,Out           | 2.5               | 1.6                   | 1           | 100          | 88            | Shutdown           | -40 to 125                       | MSOP-10                     |
| RS824       | 4                      | 8.5                      | 14            | 10                   | 1900            | 2.5                            | 5.5                            | In,Out           | 2.5               | 1.6                   | 1           | 100          | 88            | —                  | -40 to 125                       | SOIC-14,TSSOP-14            |

## 纳安功耗运算放大器 | Nano Power Operational Amplifier

| Part Number | Amplifiers per Package | Iq/Amp Typ (uA) | Total Supply Voltage (Min) | Total Supply Voltage (Max) | GBW Typ (KHz) | Slew Rate Typ (V/ms) | Enoise Typ@1kHz (nV/√Hz) | Vos Max@25°C (mV) | TC of Vos Typ (uV/°C) | IB Typ (pA) | AOL Typ (dB) | CMRR Typ (dB) | Rail-to-Rail I/O | Additional Feature | Operating Temperature Range (°C) | Package                  |
|-------------|------------------------|-----------------|----------------------------|----------------------------|---------------|----------------------|--------------------------|-------------------|-----------------------|-------------|--------------|---------------|------------------|--------------------|----------------------------------|--------------------------|
| RS8021      | 1                      | 0.4             | 1.4                        | 5.5                        | 5             | 1.5                  | 360                      | 3                 | 2.3                   | 1           | 106          | 90            | Yes              | —                  | -40 to 125                       | SOT23-5                  |
| RS8031      | 1                      | 0.8             | 1.4                        | 5.5                        | 15            | 7.5                  | 160                      | 4                 | 2.3                   | 1           | 106          | 90            | Yes              | —                  | -40 to 125                       | SOT23-5                  |
| RS8032      | 2                      | 0.8             | 1.4                        | 5.5                        | 15            | 7.5                  | 160                      | 4                 | 2.3                   | 1           | 106          | 90            | Yes              | —                  | -40 to 125                       | SOIC-8,MSOP-8            |
| RS8034      | 4                      | 0.8             | 1.4                        | 5.5                        | 15            | 7.5                  | 160                      | 4                 | 2.3                   | 1           | 106          | 90            | Yes              | —                  | -40 to 125                       | SOIC-14,TSSOP-14         |
| RS8051      | 1                      | 0.67            | 1.4                        | 5.5                        | 100           | 30                   | 160                      | 5                 | 2.3                   | 1           | 85           | 75            | Yes              | —                  | -40 to 125                       | SOT23-5                  |
| RS8052      | 2                      | 0.67            | 1.4                        | 5.5                        | 100           | 30                   | 160                      | 5                 | 2.3                   | 1           | 85           | 75            | Yes              | —                  | -40 to 125                       | SOIC-8,MSOP-8,TDFN2X2-8L |
| RS8054      | 4                      | 0.67            | 1.4                        | 5.5                        | 100           | 30                   | 160                      | 5                 | 2.3                   | 1           | 85           | 75            | Yes              | —                  | -40 to 125                       | SOIC-14,TSSOP-14         |

## 仪表放大器 | Instrumentation Amplifier

| Part Number | Common Mode Voltage (Max) (V) | Common Mode Voltage (Min) (V) | Input Offset (+-)(Max) (uV) | Input Offset Drift (+-)(Typ) (uV/C) | Gain (V/V)            | Gain Error (%) | CMRR (Min) (dB) | Bandwidth at min Gain (kHz) | Supply Voltage (Max) (V) | Supply Voltage (Min) (V) | Iq (Max) (mA) | Operating Temperature Range (°C) | Package          |
|-------------|-------------------------------|-------------------------------|-----------------------------|-------------------------------------|-----------------------|----------------|-----------------|-----------------------------|--------------------------|--------------------------|---------------|----------------------------------|------------------|
| RS199       | 26                            | 0                             | 350                         | 2                                   | 50,100,200            | 0.4            | 85              | 25                          | 26                       | 2.7                      | 0.1           | -40 to 125                       | SC70-6           |
| RS186 *     | 40                            | -0.2                          | 50                          | 0.5                                 | 25, 50, 100, 200, 500 | 1              | 120             | 45                          | 5.5                      | 2.7                      | 0.09          | -40 to 125                       | SOT23, SC70-6    |
| RS240 *     | 80                            | -4                            | 25                          | 0.5                                 | 20, 50, 100, 200      | 0.2            | 120             | 400                         | 5.5                      | 2.7                      | 2.6           | -40 to 125                       | SOIC-8           |
| RS620 *     | 36                            | 3                             | 150                         | 2                                   | 1,10,100,1000         | 0.15           | 120             | 800                         | 36                       | 2.7                      | 0.2           | -40 to 125                       | SOIC-8           |
| RS621 *     | 36                            | 3                             | 150                         | 2                                   | 10100                 | 0.15           | 120             | 800                         | 36                       | 2.7                      | 0.2           | -40 to 125                       | SOIC-8           |
| RS633       | 5.6                           | -0.1                          | 25                          | 1.5                                 | 1,2,4,5,10,20,50,100  | 0.15           | 95              | 150                         | 5.5                      | 2.3                      | 0.115         | -40 to 125                       | MSOP-8,DFN3x3-8L |

## 低功耗比较器 | Nano Power Comparator

| Part Number | Number of Channels (#) | Iq per channel (Typ) (nA) | Feature      | Vcc (V) | Vos (Offset Voltage @ 25°C) (Max) (mV) | Propagation Delay (L to H@ Overdrive = 100 mV) (μs) | Propagation Delay (H to L@ Overdrive = 100 mV) (μs) | TRise @Vcc=5V (ns) | TFall @Vcc=5V (ns) | Logic Output Type | Operating Temperature Range (°C) | Package                |
|-------------|------------------------|---------------------------|--------------|---------|--|---|---|--------------------|--------------------|-------------------|----------------------------------|------------------------|
| RS8901      | 1                      | 400                       | N            | 1.4~5.5 | 3                                      | 21  | 9   | 240                | 260                | Push-Pull         | -40 to 125                       | SOT23-5,SC70-5         |
| RS8905      | 2                      | 400                       | N            | 1.4~5.5 | 3                                      | 21  | 9   | 240                | 260                | Push-Pull         | -40 to 125                       | SOIC-8,MSOP-8          |
| RS8907      | 1                      | 400                       | N            | 1.4~5.5 | 3                                      | 21  | 9   | 240                | 260                | Push-Pull         | -40 to 125                       | SOT23-5,SC70-5         |
| RS8912      | 1                      | 4850                      | 1.2V Ref Out | 2.5~5.5 | 3.5                                    | 10  | 10  | 12000              | 12000              | Push-Pull         | -40 to 125                       | SOT23-6, DFN1.6*1.6-6L |

## 高速比较器 | High Speed Comparator

| Part Number | Comparators per Package | Iq/Comp Typ (μA) | Input Common Mode Voltage Range(V) | Vcc (V) | Vos Max@25°C (mV) | t, H to L @Vcc=5V PD(ns) | t, L to H @Vcc=5V PD(ns) | TRise @Vcc=5V (ns) | TFall @Vcc=5V (ns) | Logic Output     | Operating Temperature Range (°C) | Package          |
|-------------|-------------------------|------------------|------------------------------------|---------|-------------------|--------------------------|--------------------------|--------------------|--------------------|------------------|----------------------------------|------------------|
| RS8904      | 1                       | 120              | -0.1~Vs+0.1                        | 2.7~5.5 | 20                | 25                       | 30                       | 2                  | 2                  | Push-Pull        | -40 to 125                       | SOT23-5,SC70-5   |
| RS8906*     | 1                       | 1300             | -0.1~Vs+0.1                        | 2.7~5.5 | 5                 | 6                        | 6                        | 8                  | 6                  | Push-Pull        | -40 to 125                       | SOT23-5,SC70-5   |
| RS8908*     | 1                       | 22               | -0.1~Vs+0.1                        | 2.7~5.5 | 5                 | 95                       | 120                      | 8                  | 6                  | Push-Pull        | -40 to 125                       | SOT23-5,SC70-5   |
| RS8910*     | 2                       | 22               | -0.1~Vs+0.1                        | 2.7~5.5 | 5                 | 95                       | 120                      | 8                  | 6                  | Push-Pull        | -40 to 125                       | SOIC-8,MSOP-8    |
| RS8911*     | 1                       | 150              | -0.1~Vs-1.2                        | 2.7~5.5 | 5                 | 30                       | 22                       | 11                 | 8                  | Push-Pull        | -40 to 125                       | SOT23-5          |
| RS331       | 1                       | 50               | -0.1~Vs+0.1                        | 1.8~5.5 | 3.5               | 185                      | 700                      | —                  | 42                 | Open-Drain(NFET) | -40 to 125                       | SOT23-5          |
| RS331-Q1    | 1                       | 60               | -0.1~Vs+0.1                        | 1.8~5.5 | 4.5               | 120                      | 320                      | —                  | 20                 | Open-Drain(NFET) | -40 to 125                       | SOT23-5          |
| RS393       | 2                       | 50               | -0.1~Vs+0.1                        | 1.8~5.5 | 3.5               | 185                      | 700                      | —                  | 42                 | Open-Drain(NFET) | -40 to 125                       | SOIC-8,MSOP-8    |
| RS393-Q1    | 2                       | 50               | -0.1~Vs+0.1                        | 1.8~5.5 | 3.5               | 185                      | 700                      | —                  | 42                 | Open-Drain(NFET) | -40 to 125                       | SOIC-8,MSOP-8    |
| RS339       | 4                       | 50               | -0.1~Vs+0.1                        | 1.8~5.5 | 3.5               | 185                      | 700                      | —                  | 42                 | Open-Drain(NFET) | -40 to 125                       | SOIC-14,TSSOP-14 |
| LM331       | 1                       | 65               | -0.1~ Vs-1.5                       | 3.0~32  | 7.5               | 300                      | 300                      | —                  | /                  | Open-Drain(NFET) | -40 to 125                       | SOT23-5          |
| LM393       | 2                       | 20               | -0.1~ Vs-1.5                       | 3.0~32  | 4.5               | 2000                     | 6100                     | —                  | /                  | Open-Drain(NFET) | -40 to 125                       | SOIC-8           |
| LM2903      | 2                       | 55               | -0.1~ Vs-1.5                       | 3.3~32  | 3.5               | 500                      | 1600                     | —                  | /                  | Open-Drain(NFET) | -40 to 125                       | SOIC-8,MSOP-8    |
| LM2903-Q1   | 2                       | 55               | -0.1~ Vs-1.5                       | 3.3~32  | 4.5               | 500                      | 1600                     | —                  | /                  | Open-Drain       | -40 to 125                       | SOIC-8,MSOP-8    |
| LM2901      | 4                       | 45               | -0.1~ Vs-1.5                       | 3.3~32  | 4.5               | 400                      | 800                      | —                  | /                  | Open-Drain(NFET) | -40 to 125                       | SOIC-14,TSSOP-14 |
| LM2901-Q1   | 4                       | 45               | -0.1~ Vs-1.5                       | 3.3~32  | 4.5               | 400                      | 800                      | —                  | /                  | Open-Drain       | -40 to 125                       | SOIC-14,TSSOP-14 |



# 模拟开关

## ANALOG SWITCHES

### 模拟开关 | Analog Switches

| Part Number | CH | Type | R <sub>ON</sub> (@5V) (Ω) | -3dB Bandwidth (MHz) | V <sub>CC</sub> (Min) (V) | V <sub>CC</sub> (Max) (V) | I <sub>q</sub> (μA) | V <sub>INH</sub> (Min) (@5V) (V) | V <sub>INL</sub> (Max) (@5V) (V) | t <sub>ON</sub> (@5V) (ns) | t <sub>OFF</sub> (@5V) (ns) | Operating Temperature Range (°C) | Package                               |
|-------------|----|------|---------------------------|----------------------|---------------------------|---------------------------|---------------------|----------------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|---------------------------------------|
| RS2057      | 1  | 1:2  | 4.5                       | 300                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 30                         | 25                          | -40 to 125                       | SOT363(SC70-6),SOT23-6                |
| RS2058      | 2  | 1:2  | 4.5                       | 300                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 30                         | 25                          | -40 to 125                       | MSOP-10,QFN-1.4X1.8-10L               |
| RS2099      | 4  | 1:2  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | QFN3X3-16L,TSSOP-16                   |
| RS2101      | 1  | 1:2  | 3.0                       | 120                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 29                         | 17                          | -40 to 125                       | SOT363(SC70-6)                        |
| RS2102      | 2  | 1:2  | 3.0                       | 120                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 29                         | 17                          | -40 to 125                       | MSOP-10                               |
| RS2103      | 1  | 1:2  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | SOT363(SC70-6),SOT23-6,MSOP-8         |
| RS2105      | 2  | 1:2  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | MSOP-10,TDFN-3X3-10L                  |
| RS2117H     | 2  | 1:2  | 4                         | 400                  | 2.5                       | 5.5                       | 1                   | 1.5                              | 0.5                              | 15                         | 10                          | -40 to 85                        | QFN-1.4X1.8-10L,MSOP-10               |
| RS2118      | 2  | 1:2  | 0.8                       | 80                   | 2.5                       | 5.5                       | 1                   | 1.5                              | 0.5                              | 15                         | 10                          | -40 to 85                        | QFN-1.4X1.8-10L                       |
| RS2166      | 1  | 1:1  | 4.5                       | 300                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 30                         | 25                          | -40 to 125                       | SOT23-5, SOT353(SC70-5)               |
| RS2227      | 2  | 1:2  | 6                         | 550                  | 1.8                       | 5.5                       | 1                   | 1.6                              | 0.5                              | 20                         | 15                          | -40 to 85                        | MSOP-10,QFN-1.4X1.8-10L               |
| RS2228      | 2  | 1:2  | 6                         | 550                  | 1.8                       | 5.5                       | 1                   | 1.6                              | 0.5                              | 20                         | 15                          | -40 to 85                        | QFN-1.4X1.8-10L,MSOP-10               |
| RS2233      | 4  | 1:2  | 3.0                       | 220                  | 1.8                       | 5.5                       | 1                   | 2.0                              | 0.5                              | 30                         | 13                          | -40 to 125                       | TSSOP-16, SOIC16,SSOP16               |
| RS2233-Q1   | 4  | 1:2  | 3.0                       | 220                  | 1.8                       | 5.5                       | 1                   | 2.0                              | 0.5                              | 30                         | 13                          | -40 to 125                       | TSSOP-16                              |
| RS2251      | 1  | 1:8  | 48                        | 180                  | 2.5                       | 5.5                       | 3                   | 1.7                              | 0.5                              | 65                         | 80                          | -40 to 125                       | SOIC-16,TSSOP-16,QFN-3X3-16L          |
| RS2251-Q1   | 1  | 1:8  | 48                        | 180                  | 2.5                       | 5.5                       | 3                   | 1.7                              | 0.5                              | 65                         | 150                         | -40 to 125                       | TSSOP-16                              |
| RS2252      | 2  | 1:4  | 48                        | 180                  | 2.5                       | 5.5                       | 1                   | 1.7                              | 0.5                              | 70                         | 80                          | -40 to 125                       | SOIC-16,SSOP-16,TSSOP-16, QFN-3X3-16L |
| RS2253      | 3  | 1:2  | 48                        | 180                  | 2.5                       | 5.5                       | 1                   | 1.7                              | 0.5                              | 90                         | 70                          | -40 to 125                       | SOIC-16,SSOP-16,TSSOP-16, QFN-3X3-16L |
| RS2254      | 4  | 1:1  | 24                        | 180                  | 2.5                       | 5.5                       | 1                   | 1.7                              | 0.5                              | 90                         | 70                          | -40 to 125                       | TSSOP-14,SOIC-14                      |

## 模拟开关 | Analog Switches

| Part Number | CH | Type | R <sub>ON</sub> (@5V) (Ω) | -3dB Bandwidth (MHz) | V <sub>CC</sub> (Min) (V) | V <sub>CC</sub> (Max) (V) | I <sub>q</sub> (μA) | V <sub>INH</sub> (Min) (@5V) (V) | V <sub>INL</sub> (Max) (@5V) (V) | t <sub>ON</sub> (@5V) (ns) | t <sub>OFF</sub> (@5V) (ns) | Operating Temperature Range (°C) | Package                 |
|-------------|----|------|---------------------------|----------------------|---------------------------|---------------------------|---------------------|----------------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|-------------------------|
| RS2255      | 1  | 1:4  | 24                        | 180                  | 2.5                       | 5.5                       | 1                   | 1.7                              | 0.5                              | 90                         | 70                          | -40 to 125                       | MSOP-10                 |
| RS2257      | 1  | 1:2  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | SOT363(SC70-6),SOT23-6  |
| RS2259      | 4  | 1:1  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | TSSOP-16                |
| RS2259B     | 4  | 1:1  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | TSSOP-16                |
| RS2260      | 1  | 1:8  | 105                       | 180                  | 2.0                       | 6.0                       | 2                   | 3.5                              | 1.5                              | 14.5                       | 121.5                       | -40 to 125                       | TSSOP-16,QFN2.5x3.5-16L |
| RS2266      | 2  | 1:1  | 4.5                       | 300                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 30                         | 25                          | -40 to 125                       | DFN2x3-8, MSOP-8        |
| RS2268      | 4  | 1:1  | 4.5                       | 300                  | 1.8                       | 5.5                       | 4                   | 1.5                              | 0.6                              | 30                         | 25                          | -40 to 125                       | TSSOP-14, SSOP-16       |
| RS2299      | 4  | 1:2  | 4.5                       | 300                  | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 30                         | 25                          | -40 to 125                       | QFN-3X3-16L             |
| RS2323      | 2  | 1:2  | 0.6                       | 30                   | 1.8                       | 5.5                       | 1                   | 1.5                              | 0.6                              | 50                         | 15                          | -40 to 125                       | QFN-1.4X1.8-10L         |

## 特殊开关系列 | Specialty Switches

| Part Number | CH | Type | R <sub>ON</sub> (@5V) (Ω) | -3dB Bandwidth (MHz) | V <sub>CC</sub> (ON) (V) | V <sub>CC</sub> (OFF) (V) | I <sub>q</sub> Typ (μA) | V <sub>INH</sub> (Min) (V) | V <sub>INL</sub> (Max) (V) | t <sub>ON</sub> (@1.6V) (ns) | t <sub>OFF</sub> (@1.6V) (ns) | Operating Temperature Range (°C) | Package             |
|-------------|----|------|---------------------------|----------------------|--------------------------|---------------------------|-------------------------|----------------------------|----------------------------|------------------------------|-------------------------------|----------------------------------|---------------------|
| RS550       | 4  | 1:1  | 0.5                       | 200                  | 0~0.2                    | 1.6~3.0                   | 40                      | 0.8*V <sub>CC</sub>        | 0.2*V <sub>CC</sub>        | 160                          | 90                            | -40 to 85                        | WLCSP12,QFNWB3x3-16 |
| RS553       | 2  | 1:1  | 0.5                       | 200                  | 0~0.2                    | 1.5~3.0                   | 30                      | 1.2                        | 0.5                        | 1300                         | 100μs                         | -40 to 85                        | WLCSP9,DFN3x3-8L    |

# 线性稳压器

## LINEAR REGULATOR

### 线性稳压器 | Linear Regulator

| Part Number | V <sub>IN</sub> MIN (V) | V <sub>IN</sub> MAX (V) | Output Current (mA) | Ground Current (No Load) (uA) | Dropout Voltage @IOUT=Full current/Vout=3.3V (mV) | PSRR @1kHz (dB) | Output current Noise (uVRMS) | V <sub>OUT</sub> (V)                                     | Operating Temperature Range (°C) | Package                                   |
|-------------|-------------------------|-------------------------|---------------------|-------------------------------|---|-----------------|------------------------------|--|----------------------------------|---|
| RS3002      | 2.5                     | 36                      | 150                 | 2.5                           | 1200  | 54              | —                            | 1.8,3.0,3.3,3.6,5.0                                      | -40 to 85                        | SOT23-5,SOT23,SOT23-3,SOT89-3             |
| RS3005      | 2.5                     | 36                      | 150                 | 11                            | 1300  | 63              | —                            | 3.0,3.3,3.6,4.4,5.0,12                                   | -40 to 85                        | SOT89-3,SOT23-3,SOT23-5,SOT23,TO-92       |
| RS3007      | 2.5                     | 45                      | 300                 | 3                             | 1005  | 77              | 100                          | 3.0,3.3,5.0  | -40 to 85                        | SOT23-3,SOT23-5,SOT89-3L,SOT223,SOIC-8    |
| RS73xx-1    | 2.5                     | 45                      | 300                 | 3                             | 1005  | 77              | 100                          | 3.0,3.3,3.6,5.0  | -40 to 85                        | SOT23-3,SOT89-3L                          |
| RS75xx-1    | 2.5                     | 36                      | 150                 | 2                             | 780   | 40              | —                            | 2.5,3.0,3.3,3.6,5.0                                      | -40 to 85                        | SOT23-3,SOT89-3                           |
| RS3219      | 1.7                     | 7.5                     | 300                 | 120                           | 280   | 55              | 38                           | 1.2,1.5,1.8,2.5,2.8,3.0,3.3                              | -40 to 85                        | SOT23-3,SOT23-5,UTDFN1×1-4                |
| RS3221      | 1.7                     | 7.5                     | 200                 | 1                             | 155   | 34              | 170                          | 0.8,1.0,1.2,1.5,1.8,2.05,2.5,2.8,3.0,3.3,3.6,4.0,5.0     | -40 to 85                        | SOT23-3,UTDFN1×1-4,SOT23-5,SC70-5,SOT89-3 |
| RS3235      | 1.2                     | 5.5                     | 3000                | 105                           | 220@VOUT=1.8V                                     | 60              | —                            | Adj(0.8V~Vin-Vdrop)                                      | -40 to 85                        | ESOP8,DFN3X3-10L                          |
| RS3236      | 1.7                     | 7.5                     | 500                 | 30                            | 450   | 70              | 68                           | 0.8,1.0,1.2,1.5,1.8,2.05,2.5,2.8,3.0,3.3,3.6,4.0,5.0,Adj | -40 to 85                        | UTDFN1×1-4,SOT23-5,SC70-5,SOT23-3,SOT89-3 |
| RS3237*     | 2.5                     | 5.5                     | 250                 | 20                            | 210   | 90              | 15                           | 1.2,1.8,2.5,2.8,3.0,3.3                                  | -40 to 85                        | SOT23-5,UTDFN1×1-4                        |
| RS3238*     | 2.5                     | 5.5                     | 1000                | 90                            | 280   | 75              | 50                           | 1.8,3.0,3.3,Adj  | -40 to 85                        | DFN 1.2X1.6-8L,DFN 3X3-8L                 |
| RS3239*     | 2.5                     | 5.5                     | 2000                | 500                           | 500   | 70              | 80                           | 1.8,3.0,3.3,Adj  | -40 to 85                        | SOIC-8,DFN 3X3-8L                         |

# 数据转换器

## DATA CONVERTERS

### 模数转换器 — ADC | Analog-Digital Converter - ADC

| Part Number | Architecture | Resolution (Bits) | Sample Rate (max) (SPS) | # Input Channels | Multi-Channel Configuration | Integrated Features                                | Interface | Analog Voltage AVDD (Min) (V) | Analog Voltage AVDD (Max) (V) | Operating Temperature Range (°C) | Description                                     | Package     |
|-------------|--------------|-------------------|-------------------------|------------------|-----------------------------|--|-----------|-------------------------------|-------------------------------|----------------------------------|---|-------------|
| RS1472      | SAR          | 14                | 1M                      | 2                | Multiplexed                 | Two Differential Inputs                            | SPI       | 2.7                           | 5.25                          | -40 to 125                       | 14 Bit Differential Analog-to-Digital Converter | QFN3x3-16L  |
| RS1461      | SAR          | 12                | 1M                      | 1                | N/A                         | 1-Ch Single-ended inputs                           | SPI       | 2.7                           | 5.25                          | -40 to 125                       | 12-Bit ,1MSPS ,1-Ch SAR ADC                     | SOT23-6     |
| RS1473      | SAR          | 14                | 2M                      | 2                | Multiplexed                 | 2-Ch Single-ended inputs                           | SPI       | 2.7                           | 5.25                          | -40 to 125                       | 14-Bit ,2MSPS , 2-Ch Single-ended Input SAR ADC | QFN3x3-16L  |
| RS1434*     | SAR          | 16                | 250K                    | 4                | Multiplexed                 | 4-Ch single-ended, differential, or bipolar inputs | SPI       | 2.3                           | 5.25                          | -40 to 125                       | 16-Bit ,250kSPS ,4-Ch SAR ADC                   | LFCSP20     |
| RS1438*     | SAR          | 16                | 250K                    | 8                | Multiplexed                 | 8-Ch single-ended, differential, or bipolar inputs | SPI       | 2.3                           | 5.25                          | -40 to 125                       | 16-Bit ,250kSPS ,8-Ch SAR ADC                   | LFCSP20     |
| RS1506*     | Pipeline     | 8                 | 100M                    | 2                | N/A                         | 2-Ch 8-bit monolithic sampling inputs              | TTL/CMOS  | 2.7                           | 3.6                           | -40 to 125                       | 8-Bit, 100MSPS ,2-Ch SAR ADC                    | LQFP48      |
| RS1118*     | Delta-Sigma  | 16                | 1K                      | 4                | Multiplexed                 | Oscillator, PGA, Small Size, Temp Sensor           | SPI       | 2.7                           | 5.25                          | -40 to 125                       | 16-Bit 1kSPS 4-Ch ADC With PGA                  | TSSOP, VQFN |
| RS1120*     | Delta-Sigma  | 16                | 2K                      | 4                | Multiplexed                 | 50/60 Hz Rejection,Oscillator, PGA, Temp Sensor    | SPI       | 2.3                           | 5.5                           | -40 to 125                       | 16-Bit 2kSPS 4-Ch Low-Power Delta-Sigma ADC     | TSSOP, VQFN |

# 逻辑 & 转换

## LOGIC & TRANSLATION

### 电平转换器 | Level Shifters

| Part Number | Translators per Package | Data Rate (Mbps) | VCCA Range (V) | VCCB Range (V) | Direction       | VCC Shutdown I/O State | Icc Max (uA) | Shutdown Icc Max (uA) | Logic Output         | Features                  | Package   |
|-------------|-------------------------|------------------|----------------|----------------|-----------------|------------------------|--------------|-----------------------|----------------------|---------------------------|---|
| RS0101      | 1                       | 24/2             | 1.65~5.5       | 2.3~5.5        | Bidirectional   | Hi-Z                   | 11           | 1                     | Open-Drain/Push-Pull | GPIO Level Shifter        | SOT23-6,SC70-6,DFN1.45*1.0-6L                   |
| RS0102      | 2                       | 24/2             | 1.65~5.5       | 2.3~5.5        | Bidirectional   | Hi-Z                   | 13           | 1                     | Open-Drain/Push-Pull | GPIO Level Shifter        | SOT23-8,DFN2x3-8L,DFN-1.4x1-8L,VSSOP8           |
| RS0104      | 4                       | 24/2             | 1.65~5.5       | 2.3~5.5        | Bidirectional   | Hi-Z                   | 15           | 1                     | Open-Drain/Push-Pull | GPIO Level Shifter        | TSSOP-14,QFN2x2-12L,QFN2x1.7-12L,QFN3.5x3.5-14L |
| RS0104-Q1   | 4                       | 24/2             | 1.65~5.5       | 2.3~5.5        | Bidirectional   | Hi-Z                   | 15           | 1                     | Open-Drain/Push-Pull | GPIO Level Shifter        | TSSOP-14,QFN2x1.7-12L                           |
| RS0108      | 8                       | 24/2             | 1.65~5.5       | 2.3~5.5        | Bidirectional   | Hi-Z                   | 30           | 1                     | Open-Drain/Push-Pull | GPIO Level Shifter        | TSSOP20,QFN3x3-20L                              |
| RS0108-Q1   | 8                       | 24/2             | 1.65~5.5       | 2.3~5.5        | Bidirectional   | Hi-Z                   | 30           | 1                     | Open-Drain/Push-Pull | GPIO Level Shifter        | TSSOP20,  |
| RS0202      | 2                       | 100              | 1.2~3.6        | 1.65~5.5       | Bidirectional   | Hi-Z                   | 10           | 1                     | Push-Pull            | GPIO Level Shifter        | DFN2x3-8L,MSOP-8                                |
| RS0204      | 4                       | 100              | 1.2~3.6        | 1.65~5.5       | Bidirectional   | Hi-Z                   | 10           | 1                     | Push-Pull            | GPIO Level Shifter        | TSSOP-14,QFN1.7x2-12L,QFN3.5x3.5-14L            |
| RS0208      | 8                       | 100              | 1.2~3.6        | 1.65~5.5       | Bidirectional   | Hi-Z                   | 10           | 1                     | Push-Pull            | GPIO Level Shifter        | TSSOP20,QFN3x3-20L                              |
| RS0302      | 2                       | 100              | 1.0~5.5        | 1.8~5.5        | Bidirectional   | Hi-Z                   | /            | 5                     | Open-Drain           | I2C & SMBus Level Shifter | SOT23-8,DFN1.4x1.0-8L                           |
| RS1T34      | 1                       | 200              | 1.65~5.5       | 1.65~5.5       | Fixed           | Hi-Z                   | 4            | 1                     | Push-Pull            | GPIO Level Shifter        | SOT23-5,SC70-5                                  |
| RS1T45      | 1                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 4            | 1                     | Push-Pull            | GPIO Level Shifter        | SOT23-6,SC70-6                                  |
| RS1T45-Q1   | 1                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 4            | /                     | Push-Pull            | GPIO Level Shifter        | SC70-6  |
| RS2T45      | 2                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 4            | 1                     | Push-Pull            | GPIO Level Shifter        | VSSOP-8,MSOP-8                                  |
| RS2T45-Q1   | 2                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 4            | /                     | Push-Pull            | GPIO Level Shifter        | VSSOP-8   |
| RS2T245     | 2                       | 200              | 0.9~3.6        | 0.9~3.6        | Configurable    | Hi-Z                   | 30           | 1                     | Push-Pull            | GPIO Level Shifter        | QFN1.4x1.8-10L                                  |
| RS4T245     | 4                       | 200              | 1.65~5.5       | 1.65~5.5       | YeConfigurables | Hi-Z                   | 20           | 1                     | Push-Pull            | GPIO Level Shifter        | TSSOP-16,QFN2.5x3.5-16L                         |
| RS4T245-Q1  | 4                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 20           | /                     | Push-Pull            | GPIO Level Shifter        | QFN2.5x3.5-16L                                  |
| RS4T774     | 4                       | 200              | 0.9~3.6        | 0.9~3.6        | Configurable    | Hi-Z                   | 30           | 1                     | Push-Pull            | GPIO Level Shifter        | TSSOP-16,QFN2.5x3.5-16L,QFN2.6x1.8-16L          |
| RS8T245     | 8                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 25           | 1                     | Push-Pull            | GPIO Level Shifter        | TSSOP-24,SOIC-24                                |
| RS8T245-Q1  | 8                       | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 25           | /                     | Push-Pull            | GPIO Level Shifter        | TSSOP-24  |
| RS16T245A   | 16                      | 200              | 1.65~5.5       | 1.65~5.5       | Configurable    | Hi-Z                   | 80           | 10                    | Push-Pull            | GPIO Level Shifter        | TSSOP-48  |

逻辑 | Logic Series

| Part Number | Translators per Package | VCC Range (V) | Icc Max (uA) | Features   | Operating Temperature Range (°C) | Package              |
|-------------|-------------------------|---------------|--------------|--|----------------------------------|----------------------|
| RS1G00      | 1                       | 1.65~5.5      | 10           | Single Channel 2-Input NAND Gate                           | -40 to 125                       | SOT23-5,SC70-5       |
| RS2G00      | 2                       | 1.65~5.5      | 10           | Dual Channel 2-Input NAND Gate                             | -40 to 125                       | MSOP-8               |
| RS4G00      | 4                       | 1.65~5.5      | 10           | Quad Channel 2-Input NAND Gate                             | -40 to 125                       | SOIC-14,TSSOP-14     |
| RS1G02*     | 1                       | 1.65~5.5      | 10           | Single Channel 2-Input Positive NOR-Gate                   | -40 to 125                       | SOT23-5,SC70-5       |
| RS2G02*     | 2                       | 1.65~5.5      | 10           | Dual Channel 2-Input Positive NOR-Gate                     | -40 to 125                       | MSOP-8,VSSOP-8       |
| RS4G02*     | 4                       | 1.65~5.5      | 10           | Quad Channel 2-Input Positive NOR-Gate                     | -40 to 125                       | SOIC-14,TSSOP-14     |
| RS1G04      | 1                       | 1.65~5.5      | 10           | Single Channel Inverter                                    | -40 to 125                       | SOT23-5,SC70-5       |
| RS2G04      | 2                       | 1.65~5.5      | 10           | Dual Channel Inverter                                      | -40 to 125                       | SOT23-6,SC70-6       |
| RS3G04      | 3                       | 1.65~5.5      | 10           | Triple Channel Inverter                                    | -40 to 125                       | MSOP-8,DFN1.4x1.0-8L |
| RS6G04      | 6                       | 1.65~5.5      | 10           | Hex Channel Inverter                                       | -40 to 125                       | SOIC-14,TSSOP-14     |
| RS1G06      | 1                       | 1.65~5.5      | 10           | Single Channel Inverter with open drain output             | -40 to 125                       | SOT23-5,SC70-5       |
| RS1G07      | 1                       | 1.65~5.5      | 10           | Single Channel Non-inverting Buffer with Open-drain Output | -40 to 125                       | SOT23-5,SC70-5       |
| RS2G07      | 2                       | 1.65~5.5      | 10           | Dual Channel Non-inverting Buffer with Open-drain Output   | -40 to 125                       | SOT23-6,SC70-6       |
| RS6G07      | 6                       | 1.65~5.5      | 10           | Hex Channel Non-inverting Buffer with Open-drain Output    | -40 to 125                       | SOIC-14,TSSOP-14     |
| RS1G08      | 1                       | 1.65~5.5      | 10           | Single Channel 2-Input AND Gate                            | -40 to 125                       | SOT23-5,SC70-5       |
| RS1G08-Q1   | 1                       | 1.65~5.5      | 10           | Single 2-Input Positive-AND Gate                           | -40 to 125                       | SOT23-5,SC70-5       |
| RS1GT08     | 1                       | 2.0~5.5       | 10           | Single Channel 2-Input AND Gate,TTL Input                  | -40 to 125                       | SOT23-5,SC70-5       |
| RS2G08      | 2                       | 1.65~5.5      | 10           | Dual Channel 2-Input AND Gate                              | -40 to 125                       | MSOP-8               |
| RS2GT08     | 2                       | 2.0~5.5       | 10           | Dual 2-Input Positive-AND Gate, TTL input                  | -40 to 125                       | MSOP-8,VSSOP-8       |
| RS4G08      | 4                       | 1.65~5.5      | 10           | Quad Channel 2-Input AND Gate                              | -40 to 125                       | SOIC-14, TSSOP-14    |
| RS4GT08     | 4                       | 2.0~5.5       | 10           | Quad Channel 2-Input AND Gate,TTL Input                    | -40 to 125                       | SOIC-14, TSSOP-14    |
| RS1G09      | 1                       | 1.65~5.5      | 10           | Single Channel 2-Input AND Gate with open-drain output     | -40 to 125                       | SOT23-5,SC70-5       |
| RS1G11      | 1                       | 1.65~5.5      | 10           | Single 3-Input Positive-AND Gate                           | -40 to 125                       | SOT23-5,SC70-5       |
| RS3G11      | 3                       | 1.65~5.5      | 10           | Triple 3-Input Positive-AND Gate                           | -40 to 125                       | SOP-14,TSSOP-14      |
| RS1G14      | 1                       | 1.65~5.5      | 10           | Single Channel Schmitt-Trigger Inverter                    | -40 to 125                       | SOT23-5,SC70-5       |
| RS1G14-Q1   | 1                       | 1.65~5.5      | 10           | Single Schmitt-Trigger Inverter                            | -40 to 125                       | SC70-5               |
| RS2G14      | 2                       | 1.65~5.5      | 10           | Dual Channel Schmitt-Trigger Inverter                      | -40 to 125                       | SOT23-6,SC70-6       |
| RS3G14      | 3                       | 1.65~5.5      | 10           | Triple Channel Schmitt-Trigger Inverter                    | -40 to 125                       | SOIC-14,TSSOP-14     |
| RS6G14      | 6                       | 1.65~5.5      | 10           | Hex Channel Schmitt-Trigger Inverter                       | -40 to 125                       | SOIC-14, TSSOP-14    |
| RS1G17      | 1                       | 1.65~5.5      | 10           | Single Schmitt-Trigger Buffer                              | -40 to 125                       | SOT23-5,SC70-5       |
| RS1G17-Q1   | 1                       | 1.65~5.5      | 10           | Single Schmitt-Trigger Buffer                              | -40 to 125                       | SC70-5               |
| RS1GT17*    | 1                       | 2.0~5.5       | 10           | Single Schmitt-Trigger buffer,TTL Input                    | -40 to 125                       | SOT23-5,SC70-5       |
| RS2G17      | 2                       | 1.65~5.5      | 10           | Single Schmitt-Trigger Buffer                              | -40 to 125                       | SOT23-6,SC70-6       |
| RS6G17      | 6                       | 1.65~5.5      | 10           | Hex Channel Non-inverting Buffer                           | -40 to 125                       | SOIC-14, TSSOP-14    |

\* 产品研发中 Q1 产品通过车规认证

逻辑 | Logic Series

| Part Number | Translators per Package | VCC Range (V) | Icc Max (uA) | Features  | Operating Temperature Range (°C) | Package                          |
|-------------|-------------------------|---------------|--------------|---|----------------------------------|----------------------------------|
| RS1G32      | 1                       | 1.65~5.5      | 10           | Single Channel 2-input OR Gate  | -40 to 125                       | SOT23-5,SC70-5                   |
| RS1G32-Q1   | 1                       | 1.65~5.5      | 10           | Single 2-Input Positive-OR Gate                                       | -40 to 125                       | SOT23-5,SC70-5                   |
| RS1GT32*    | 1                       | 2.0~5.5       | 10           | Single 2-Input Positive-OR Gate,TTL input                             | -40 to 125                       | SOT23-5,SC70-5                   |
| RS2G32      | 2                       | 1.65~5.5      | 10           | Dual Channel 2-input OR Gate  | -40 to 125                       | MSOP-8                           |
| RS4G32      | 4                       | 1.65~5.5      | 10           | Quad Channel 2-input OR Gate  | -40 to 125                       | SOIC-14,TSSOP-14                 |
| RS4GT32*    | 1                       | 2.0~5.5       | 10           | Quad Channel 2-input OR Gate,TTL input                                | -40 to 125                       | SOIC-14, TSSOP-14                |
| RS1G34      | 1                       | 1.65~5.5      | 10           | Single Buffer Gate  | -40 to 125                       | SOT23-5,SC70-5                   |
| RS2G34      | 2                       | 1.65~5.5      | 10           | Dual Buffer Gate  | -40 to 125                       | SOT23-6,SC70-6                   |
| RS3G34      | 3                       | 1.65~5.5      | 10           | Triple Buffer Gate  | -40 to 125                       | MSOP-8,VSSOP-8                   |
| RS1G38*     | 1                       | 1.65~5.5      | 10           | Single Channel 2-Input NAND Gate with Open-drain Output               | -40 to 125                       | SOT23-5,SC70-5                   |
| RS1G86      | 1                       | 1.65~5.5      | 10           | Single Channel 2-input Exclusive-OR Gate                              | -40 to 125                       | SOT23-5,SC70-5                   |
| RS2G86*     | 2                       | 1.65~5.5      | 10           | Dual Channel 2-input Exclusive-OR Gate                                | -40 to 125                       | MSOP-8                           |
| RS4G86*     | 4                       | 1.65~5.5      | 10           | Quad Channel 2-input Exclusive-OR Gate                                | -40 to 125                       | SOIC-14, TSSOP-14                |
| RS1G74      | 1                       | 1.65~5.5      | 10           | Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset | -40 to 125                       | MSOP-8,VSSOP-8, QFN1.4x1.0-8L    |
| RS1G97      | 1                       | 1.65~5.5      | 10           | Low Power Configurable Multiple-Function Gate                         | -40 to 125                       | SOT23-6,SC70-6                   |
| RS1G125     | 1                       | 1.65~5.5      | 10           | Single Active-Low Bus Buffer Gate With 3-State Output                 | -40 to 125                       | SOT23-5,SC70-5                   |
| RS1GT125*   | 1                       | 2.0~5.5       | 10           | Single Active-Low Bus Buffer Gate With 3-State Output,TTL input       | -40 to 125                       | SOT23-5,SC70-5                   |
| RS2G125     | 2                       | 1.65~5.5      | 10           | Dual Active-Low Bus Buffer Gate With 3-State Output                   | -40 to 125                       | MSOP-8                           |
| RS4G125     | 4                       | 1.65~5.5      | 10           | Quad Active-Low Bus Buffer Gate With 3-State Output                   | -40 to 125                       | SOIC-14,TSSOP-14                 |
| RS4GT125*   | 4                       | 2.0~5.5       | 10           | Quad Active-Low Bus Buffer Gate With 3-State Output,TTL input         | -40 to 125                       | SOIC-14,TSSOP-14                 |
| RS1G126     | 1                       | 1.65~5.5      | 10           | Single Active-High Bus Buffer Gate With 3-State Output                | -40 to 125                       | SOT23-5,SC70-5                   |
| RS2G126     | 2                       | 1.65~5.5      | 10           | Dual Active-High Bus Buffer Gate With 3-State Output                  | -40 to 125                       | MSOP-8,TSSOP8                    |
| RS4G126     | 4                       | 1.65~5.5      | 10           | Quad Active-High Bus Buffer Gate With 3-State Output                  | -40 to 125                       | SOIC-14,TSSOP-14                 |
| RS1G175     | 1                       | 1.65~5.5      | 10           | Single Positive-Edge-Triggered D-Type Flip-Flop with Clear            | -40 to 125                       | SOT23-6,SC70-6                   |
| RS138       | 1                       | 2~5.5         | 10           | 3-Line To 8-Line Decoders/Demultiplexers                              | -40 to 125                       | SOIC-16,TSSOP16                  |
| RS138T      | 1                       | 4.5~5.5       | 10           | 3-Line To 8-Line Decoders/Demultiplexers, TTL Input                   | -40 to 125                       | SOIC-16,TSSOP16                  |
| RS244       | 8                       | 1.65~5.5      | 5            | Octal Buffer/Driver With 3-State Outputs                              | -40 to 125                       | TSSOP-20,SOIC-20                 |
| RS244-Q1    | 8                       | 1.65~5.5      | 5            | Octal Buffer/Driver With 3-State Outputs for automobile               | -40 to 125                       | TSSOP-20                         |
| RS244T      | 8                       | 4.5~5.5       | 5            | TTL input voltage, Octal Buffer/Driver With 3-State Outputs           | -40 to 125                       | TSSOP-20,SOIC-20                 |
| RS245       | 8                       | 1.65~5.5      | 5            | Octal Bus Transceivers With 3-State Outputs                           | -40 to 125                       | TSSOP-20,SOIC-20                 |
| RS245T*     | 8                       | 2.0~5.5       | 5            | TTL input voltage,Octal Bus Transceivers With 3-State Outputs         | -40 to 125                       | TSSOP-20,SOIC-20                 |
| RS595S      | 1                       | 2.0~5.5       | 160          | 8-Bit Shift Registers With 3-State Output                             | -40 to 125                       | SOIC-16,TSSOP-16,QFN-2.5x3.5-16L |
| RS595-Q1*   | 1                       | 1.65~5.5      | 160          | 8-Bit Shift Registers With 4-State Output                             | -40 to 125                       | SOIC-16,TSSOP-16                 |
| RS595T      | 1                       | 4.5~5.5       | 160          | 8-Bit Shift Registers With 3-State Output,TTL input                   | -40 to 125                       | SOIC-16,TSSOP-16                 |

# 电压基准源芯片

## VOLTAGE REFERENCE

### ■ 并联电压基准源 | Shunt Voltage References

| Part Number | VREF (V) | Voltage Tolerance | V <sub>KA</sub> (V) | I <sub>REF</sub> (Max, uA) | I <sub>KA</sub> (Min, mA) | Temperature | Operating Temperature Range (°C) | Package |
|-------------|----------|-------------------|---------------------|----------------------------|---------------------------|-------------|----------------------------------|---------|
| RS421       | 1.18     | 0.50%             | 1.25~36             | 1.2                        | 0.3                       | 50ppm/°C    | -40 to 125                       | SOT23   |
| RS422       | 1.18     | 0.50%             | 1.25~36             | 1.2                        | 0.3                       | 50ppm/°C    | -40 to 125                       | SOT23   |
| RS431       | 2.5      | 0.5% / 1%         | 2.5~36              | 4                          | 0.5                       | 50ppm/°C    | -40 to 125                       | SOT23   |
| RS432       | 2.5      | 0.5% / 1%         | 2.5~36              | 4                          | 0.5                       | 50ppm/°C    | -40 to 125                       | SOT23   |

### ■ 串联电压基准源 | Series Voltage References

| Part Number | VREF (V)                            | Voltage Tolerance | Temperature Coefficient (Max) | I <sub>out</sub> (Max, mA) | Quiescent Current (μA) | LFN 0.1 to 10 Hz (typ) (μVPP) | Operating Temperature | Package       |
|-------------|-------------------------------------|-------------------|-------------------------------|----------------------------|------------------------|-------------------------------|-----------------------|---------------|
| RS3112      | 1.25, 2.048, 2.5, 3.0, 3.3, 4.096   | 0.10%             | 20ppm/°C                      | 10                         | 150                    | 35                            | -40 to 125            | SOT23, SOIC-8 |
| RS34*       | 2.5, 3, 3.3, 4.096, 5               | 0.05%             | 6ppm/°C                       | 10                         | 100                    | 20                            | -40 to 125            | SOT23, SOIC-8 |
| RS50*       | 2.048, 2.5, 3.0, 3.3, 4.096, 4.5, 5 | 0.05%             | 6ppm/°C                       | 10                         | 1100                   | 7.5                           | -40 to 125            | SOIC-8        |



# 电源类产品

## POWER PRODUCTS

### 负载开关 | Load Switch

| Part Number | Continuous Output Current (mA) | Quiescent Current (uA) | VIN Min(V) | VIN Max(V) | Enable Logic | Shutdown Current (uA) | Current Limit (mA) | Soft-Start | Fault Flag | Package                 |
|-------------|--------------------------------|------------------------|------------|------------|--------------|-----------------------|--------------------|------------|------------|-------------------------|
| RS2580      | 6000                           | 35                     | 0.8        | 5.5        | High         | 0.01                  | 6000               | Yes        | NO         | DFN2x2-8L               |
| RS2581 *    | 2500                           | 30                     | 2.5        | 5.5        | High         | 0.1                   | 100 to 2500        | Yes        | NO         | SOT23-5                 |
| RS2582 *    | 2500                           | 30                     | 2.5        | 5.5        | High         | 0.1                   | 100 to 2500        | Yes        | NO         | SOT23-5                 |
| RS2583 *    | 2500(ADJ)                      | 30                     | 2.5        | 5.5        | High         | 0.1                   | 100 to 2500        | Yes        | Yes        | SOT23-6                 |
| RS2584 *    | 1000/2100                      | 5                      | 2.1        | 5.5        | High         | 1                     | 1000/2100          | Yes        | NO         | SOT23-5                 |
| RS2585 *    | 1500                           | 20                     | 1.8        | 5.5        | High         | 1                     | 1000               | Yes        | NO         | SC70-6                  |
| RS2586 *    | 3000                           | 10                     | 2.1        | 5.5        | High         | 1                     | 3000               | Yes        | NO         | CSP1.4x0.9-6L,DFN2x2-6L |
| RS2588      | 1000/2000/2500                 | 30                     | 2.5        | 5.5        | High         | 0.1                   | 1100/2100/2600     | Yes        | Yes        | SOT23-5                 |
| RS2599      | 3000(ADJ)                      | 100                    | 2.5        | 5.5        | High         | 0.1                   | 500 to 3000        | Yes        | Yes        | DFN3x3-8L               |

### DC-DC | DC-DC

| Part Number | DC-DC Topology | Output Current Max (mA) | Quiescent Current (uA) | VIN Min(V) | VIN Max(V) | Efficiency Max | Output Voltage | Switching Frequency (MHz) | Shutdown Current (uA) | Enable Logic | Package           |
|-------------|----------------|-------------------------|------------------------|------------|------------|----------------|----------------|---------------------------|-----------------------|--------------|-------------------|
| RS6651      | Sync Boost     | 1000                    | 20                     | 2.2        | 4.5        | 95%            | 3.0~5.5V       | 1.1                       | 1                     | High         | TSOT23-6          |
| RS6699 *    | Sync Boost     | 600                     | 2                      | 1          | 5.5        | 90%            | 1.8~5.5V       | 1.2                       | 1                     | High         | SOT23-6,DFN2x2-6L |

## 电压检测和复位 | Supervisor&Reset ICs

| Part Number | Quiescent Current (uA) | Manual Reset | Vcc (V) | Detect Threshold    | Watchdog Timer | Vcc to Reset Delay (us) | Reset Active Timeout Period (ms) | Reset Output | Package       |
|-------------|------------------------|--------------|---------|---------------------|----------------|-------------------------|----------------------------------|--------------|---------------|
| RS706       | 20                     | Yes          | 1.0~5.5 | 2.63,2.93,3.08,4.0  | 1.6s           | 20                      | 160                              | Low          | SOIC-8        |
| RS802*      | 5                      | No           | 1.0~5.5 | 1.63,2.32,2.63,2.93 | No             | 100                     | ADJ                              | High         | SC70-4,SOT143 |
| RS803*      | 2                      | No           | 1.0~5.5 | 2.63,2.93,3.08,4.4  | No             | 30                      | 200                              | Low          | SOT23         |
| RS804*      | 5                      | No           | 1.0~5.5 | 1.63,2.32,2.63,2.93 | No             | 100                     | ADJ                              | Low          | SC70-4,SOT143 |
| RS806       | 20                     | Yes          | 1.0~5.5 | 2.63,2.93,3.08,4.0  | 1.6s           | 30                      | 200                              | Low          | SOT23-5       |
| RS809       | 20                     | No           | 1.0~5.5 | 2.63,2.93,3.08,4.4  | No             | 30                      | 200                              | Low          | SOT23         |
| RS811*      | 10                     | Yes          | 1.0~5.5 | 2.63,2.93,3.08,4.4  | No             | 20                      | 200                              | Low          | SOT143        |

## 马达驱动 | Motor Driver

| Part Number | Motor Type       | Output Current Max (A) | Sleep Mode Current (nA) | Vcc (V) | Output Voltage | PWM Frequency | Operating Current (uA) | Operating Temperature Range (°C) | Package          |
|-------------|------------------|------------------------|-------------------------|---------|----------------|---------------|------------------------|----------------------------------|------------------|
| RS8835*     | Brushed DC Motor | 1.8                    | 35                      | 2.5~7   | 7              | 0~250 kHz     | 510                    | -40°C~85°C                       | SOT23-6          |
| RS8837      | Brushed DC Motor | 1.8                    | 35                      | 2.5~7   | 11             | 0~250 kHz     | 510                    | -40°C~85°C                       | SOIC-8,DFN2x2-8L |