

# MorSilicon



高品质模拟芯片专家

信号链 | 电源管理

## PRODUCT SELECTION GUIDE 产品选型手册



晨希半导体公众号  
Wechat public account



晨希半导体官网  
Website

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# CONTENTS

## 目录

|                                        |    |
|----------------------------------------|----|
| About MorSilicon                       |    |
| 关于公司                                   | 01 |
| 公司简介                                   | 01 |
| Company Profile                        |    |
| 产品与应用                                  | 02 |
| Products and Applications              |    |
| 技术实力与研发优势                              | 03 |
| Technical Strengths and R&D Advantages |    |
| 市场与销售                                  | 04 |
| Marketing and Sales                    |    |
| 品牌与优势                                  | 05 |
| Brand Advantages                       |    |
| 未来展望                                   | 06 |
| Future Outlook                         |    |
| 长期供货计划                                 | 07 |
| Product Longevity Program              |    |

|                                    |       |
|------------------------------------|-------|
| Product selection                  |       |
| 产品选型                               | 07    |
| 运算放大器和比较器                          |       |
| Operational Amplifier & Comparator |       |
| 精密运算放大器                            | 08    |
| Precision Operational Amplifier    |       |
| 低噪声运算放大器                           | 09-10 |
| Low Noise Operational Amplifier    |       |
| 通用运算放大器                            | 10-11 |
| General Operational Amplifier      |       |
| 纳安功耗运算放大器                          | 11    |
| Nano Power Operational Amplifier   |       |
| 高压运算放大器                            | 12    |
| High Voltage Operational Amplifier |       |
| 高速运算放大器                            | 13    |
| High-Speed Operational Amplifier   |       |
| 比较器                                | 13    |
| Comparator                         |       |
| 模拟开关                               |       |
| Analog Switches                    |       |
| 通用模拟开关                             | 14    |
| General Analog Switches            |       |
| 音频模拟开关                             | 15    |
| Audio Analog Switches              |       |
| 高速模拟开关                             | 15    |
| High Speed Analog Switches         |       |
| 电压基准源                              |       |
| Voltage Reference                  |       |
| 并联电压基准源                            | 16    |
| Shunt Voltage References           |       |
| 线性稳压器                              |       |
| Linear Regulator                   |       |
| 线性稳压器                              | 17    |
| Linear Regulator                   |       |
| DC-DC                              |       |
| DC-DC                              |       |
| DC-DC                              | 18    |
| DC-DC                              |       |
| eFuse                              |       |
| eFuse                              |       |
| eFuse                              | 19    |
| eFuse                              |       |
| 负载开关                               |       |
| Load Switch                        |       |
| 负载开关                               | 20    |
| Load Switch                        |       |

# COMPANY PROFILE

## 公司简介



深圳晨希半导体科技有限公司  
Shenzhen MorSilicon Semiconductor Technology Co., Ltd.

深圳晨希半导体科技有限公司(简称“晨希半导体”)成立于2024年，总部位于中国创新之都深圳，是一家专注于高性能模拟芯片设计与系统解决方案的高科技企业。公司以信号链与电源管理为核心技术方向，产品涵盖放大器比较器、模拟开关、线性稳压器等关键器件，广泛应用于工业自动化、新能源、消费电子、医疗健康、通信安防等领域，助力全球客户实现技术升级与智能化转型。

创始团队深耕半导体领域超20年，汇聚国内外顶尖专家，具备从芯片设计到应用落地的全链条技术能力。针对工业物联网(IoT)与自动化需求，提供高可靠性、长寿命的工业级芯片解决方案，支持设备7x24小时稳定运行，并构建长期供货保障体系。为智能家居、医疗设备等场景开发创新型芯片方案，推动终端产品向智能化、轻量化发展。严格遵循工业级品控标准，通过全流程质量检测与持续优化，构建快速响应机制与定制化服务体系，保障客户需求高效落地。

公司与福州大学微电子系围绕信号链技术开展深度合作，结合学术研究与企业实践，加速技术成果转化。

晨希半导体秉持“创新驱动、品质为本”的理念，聚焦工业自动化与AIOT领域技术突破，致力于成为全球领先的高品质模拟芯片供应商，以核心技术赋能智能制造与智慧生活，践行“用芯驱动产业革新”的企业使命。



# PRODUCTS AND APPLICATIONS

## 产品和应用

### 运算放大器和比较器

精密运算放大器  
低噪声运算放大器  
通用运算放大器  
纳安功耗运算放大器  
高压运算放大器  
高速运算放大器  
比较器

### 模拟开关

通用模拟开关  
音频模拟开关

### 消费电子



### 工业自动化



产品



应用

### 机器人



### 电压基准源

并联电压基准源

### 线性稳压器

线性稳压器

### 通信设备



### 医疗设备



# TECHNICAL STRENGTH AND R&D ADVANTAGES

## 技术实力与研发优势



技术驱动创新 专业铸就品质

TECHNOLOGY DRIVES INNOVATION; PROFESSIONALISM BUILDS QUALITY

### 研发投入

持续高强度资源投入  
聚焦模拟芯片创新与产品迭代

### 团队实力

资深研发团队  
深厚的模拟电路设计经验  
覆盖工艺、封装、测试全链条

### 技术积累

精准把握市场与技术趋势  
快速推出高性能芯片产品  
突破关键领域技术瓶颈

### 产业协同

与国内外知名厂商深度合作  
在先进工艺研发平台进行芯片设计和生产  
保障产品高性能与高可靠性

### 行业影响

参与行业标准制定活动  
积极参与国内外学术交流活动  
持续提升技术影响力与话语权

# MARKETING AND SALES

## 市场与销售

### 市场布局

覆盖中国主要城市的销售团队  
实时捕捉市场动态，精准匹配客户需求  
快速响应市场变化与客户需求

### 服务体系

以客户为中心  
从选型到售后的全周期技术支持  
定制化应用方案设计

### 市场表现

与多家知名电子产品制造商建立稳定合作  
产品获得广泛应用与市场认可  
模拟芯片产品获得市场广泛认可

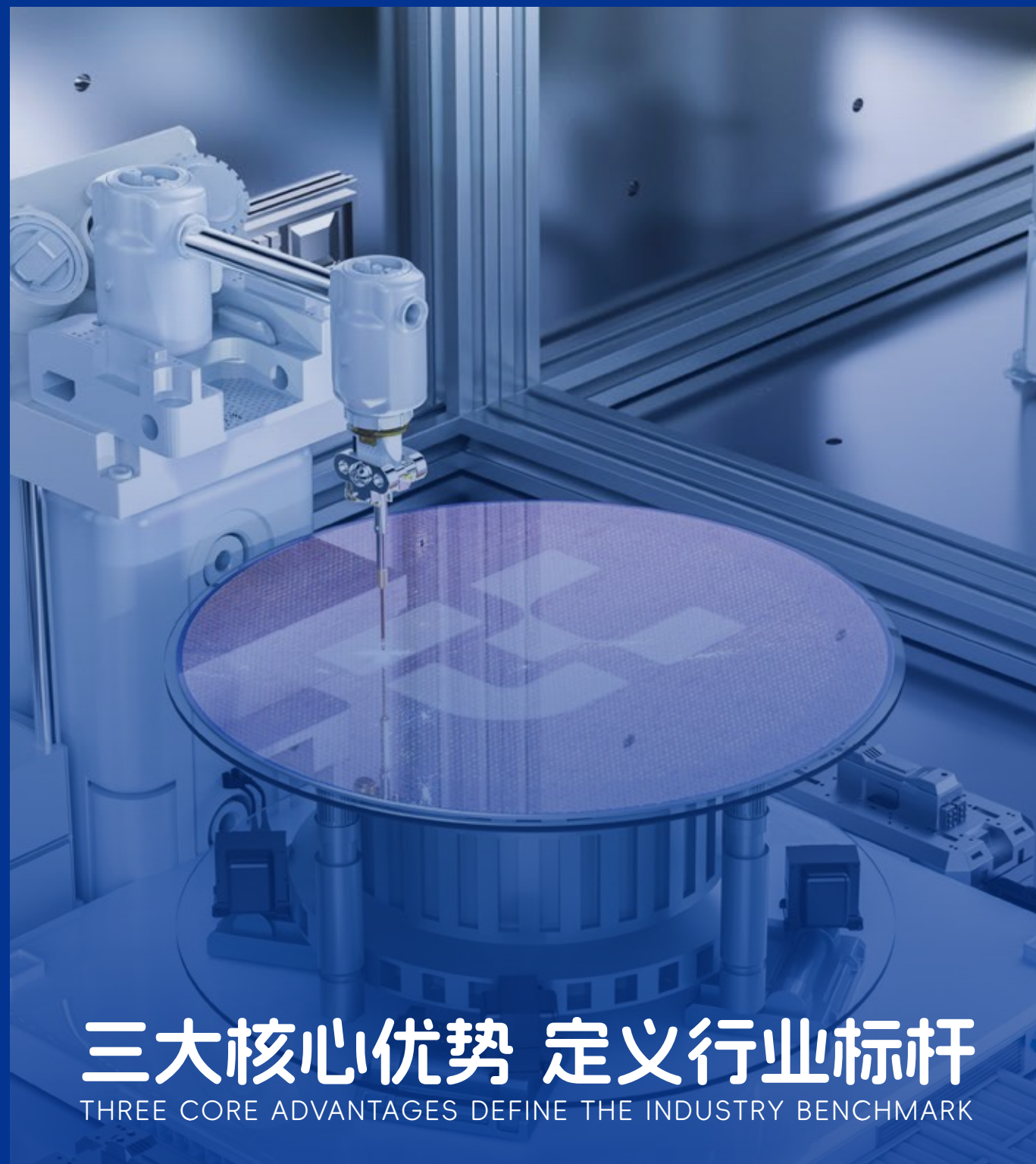
### 发展策略

积极拓展海外市场  
强化品牌国际影响力  
致力于成为世界一流模拟芯片供应商



# BRAND AND ADVANTAGES

## 品牌与优势



### 三大核心优势 定义行业标杆

THREE CORE ADVANTAGES DEFINE THE INDUSTRY BENCHMARK

#### 丰富的产品线

晨希半导体在信号链和电源管理领域拥有丰富的产品线，涵盖了从基础芯片到高端定制化芯片的全系列产品。这种丰富的产品线布局使得公司能够满足不同客户在不同应用场景下的多样化需求，为客户提供一站式的模拟芯片解决方案，降低客户的采购成本和开发难度。

#### 强大的研发和运营生产体系

公司具备强大的研发能力，能够快速响应市场变化，推出符合市场需求的高性能芯片产品。同时，晨希半导体还建立了高效的运营生产体系，确保产品的生产过程严格把控质量关，从原材料采购、芯片制造到封装测试，每一个环节都经过严格的质量检测，确保交付到客户手中的产品具备卓越的性能和可靠性。

#### 深度的市场洞察与快速响应能力

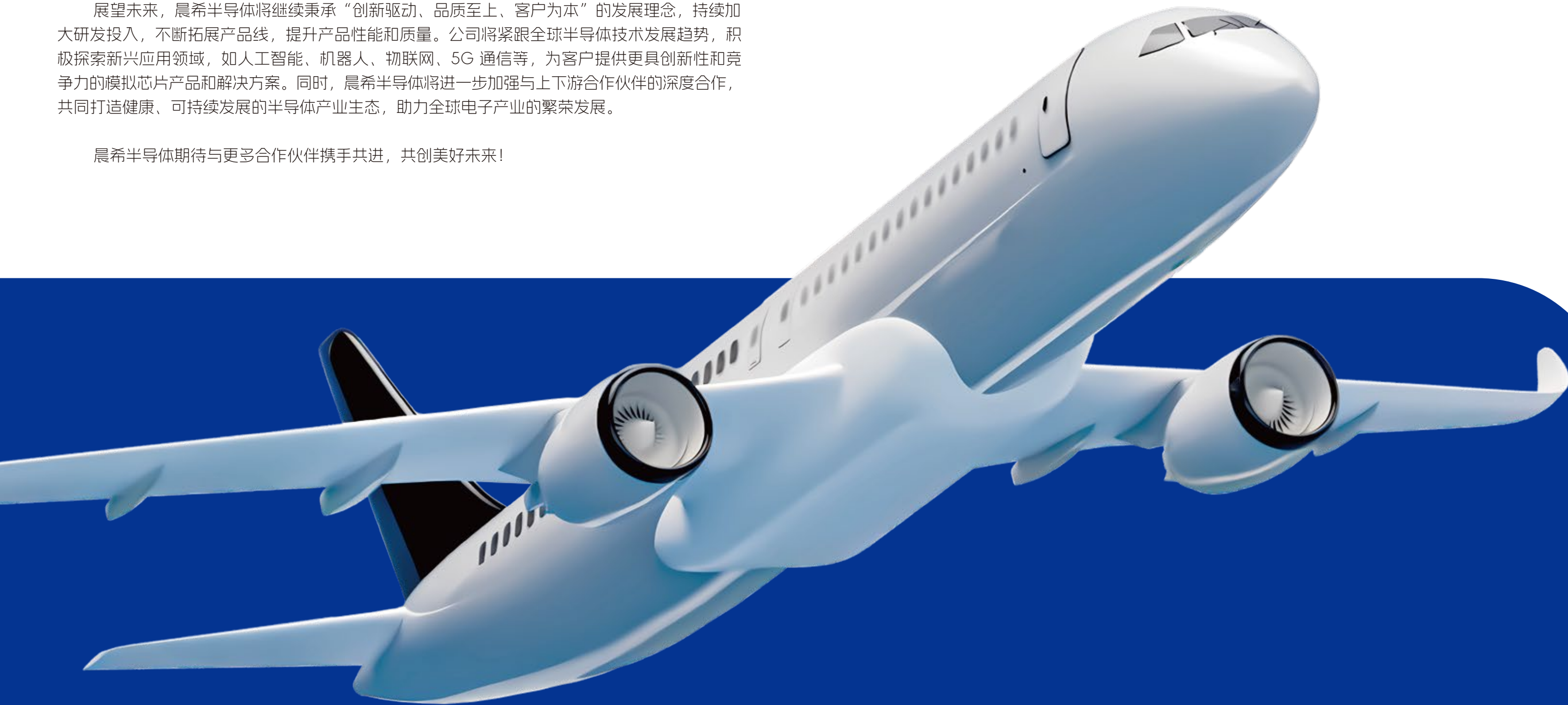
凭借深耕中国市场多年的经验，晨希半导体对国内电子市场的发展趋势和客户需求有着深刻的理解。公司持续关注新应用、新需求，能够快速调整产品策略和研发方向，及时推出符合市场趋势的新产品。这种深度的市场洞察和快速响应能力使得晨希半导体在激烈的市场竞争中始终保持领先地位，为客户创造更大的价值。

# FUTURE OUTLOOK

## 未来展望

展望未来，晨希半导体将继续秉承“创新驱动、品质至上、客户为本”的发展理念，持续加大研发投入，不断拓展产品线，提升产品性能和质量。公司将紧跟全球半导体技术发展趋势，积极探索新兴应用领域，如人工智能、机器人、物联网、5G 通信等，为客户提供更具创新性和竞争力的模拟芯片产品和解决方案。同时，晨希半导体将进一步加强与上下游合作伙伴的深度合作，共同打造健康、可持续发展的半导体产业生态，助力全球电子产业的繁荣发展。

晨希半导体期待与更多合作伙伴携手共进，共创美好未来！



# PRODUCT LONGEVITY PROGRAM

## 长期供货计划



保十年供应 稳长期生产  
ENSURE 10-YEAR SUPPLY AND STABLE LONG-TERM PRODUCTION

### 长期供货计划说明

为保障客户长期生产稳定性，本计划承诺对入选产品提供至少10年的持续供货服务。若需终止生产，将提前1年通知客户，并于每年1月系统性评估生产体系与供应链，动态调整供货名录，确保供应可靠性。

针对部件停产风险，我们预先筛选替代方案、储备采购渠道并设计兼容性电路方案，避免产线中断与紧急改造成本。

通过该计划，客户可显著降低供应链波动风险，保障长期生产规划稳定，实现设备全生命周期的高效管理与成本优化。

### 长期供货计划

2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038

2025

2025年产品  
(保持10年供货)

正常供货

#### 长期供货计划概要

1. 产品选定机制：适用本计划的产品经严格筛选后，将通过官网公示并动态维护。目录内适用产品均以「★」标识。
2. 供货周期：自2025年1月起，确保入选产品连续稳定供货10年。
3. 名录更新规则：每年1月对产品清单实施年度审核与更新。
4. 停产预警机制：若供货期满后需终止生产，将提前12个月以书面形式向客户发出正式通知。

# OPERATIONAL AMPLIFIER & COMPARATOR

## 运算放大器和比较器

### 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) | Iq/Amp Typ (uA) | Total Supply Voltage (V) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Enoise 0.01Hz~10Hz (uVpp) | Enoise Typ@1kHz (nV/√Hz) | IB Typ (pA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|-----------------------------------|-----------------------|-----------------|--------------------------|---------------|----------------------|---------------------------|--------------------------|-------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX333       | 1                      | 2                                 | 0.02                  | 15              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 40                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX333B      | 1                      | 2                                 | 0.02                  | 15              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 40                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX2333      | 2                      | 2                                 | 0.02                  | 15              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 40                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX4333      | 4                      | 2                                 | 0.02                  | 15              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 40                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8551      | 1                      | 2                                 | 0.005                 | 470             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 40                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX8551B     | 1                      | 2                                 | 0.005                 | 470             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 40                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX8552      | 2                      | 2                                 | 0.005                 | 470             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 40                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8554      | 4                      | 2                                 | 0.005                 | 470             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 40                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8111      | 1                      | 20                                | 0.05                  | 25              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 45                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX8111B     | 1                      | 20                                | 0.05                  | 25              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 45                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX8112      | 2                      | 20                                | 0.05                  | 25              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 45                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8114      | 4                      | 20                                | 0.05                  | 25              | 1.8-5.5                  | 0.35          | 0.12                 | 1.1                       | 45                       | 1           | 110           | 120           | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8131      | 1                      | 20                                | 0.05                  | 500             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 45                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX8131B     | 1                      | 20                                | 0.05                  | 500             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 45                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOT23-5       |
| CX8132      | 2                      | 20                                | 0.05                  | 500             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 45                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8134      | 4                      | 20                                | 0.05                  | 500             | 1.8-5.5                  | 1.8           | 0.9                  | 1                         | 45                       | 1           | 125           | 120           | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| ★ CX277     | 1                      | 50                                | 0.1                   | 760             | 2.5-36                   | 1             | 0.7                  | -                         | 8                        | 500         | 140           | 140           | -                | -40 ~ 125                        | SOT23-5       |
| ★ CX2277    | 2                      | 50                                | 0.1                   | 760             | 2.5-36                   | 1             | 0.7                  | -                         | 8                        | 500         | 140           | 140           | -                | -40 ~ 125                        | SOP8,MSOP8    |

低噪声运算放大器

Low Noise Operational Amplifier

| Part Number | Amplifiers per Package | Enoise Typ@1kHz (nV/√Hz) | Enoise Typ@0.1Hz~10Hz (μVpp) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Total Supply Voltage (V) | Vos Max@25°C (mV) | TC of Vos Typ (uV/°C) | Iq/Amp Typ (uA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|--------------------------|------------------------------|---------------|----------------------|--------------------------|-------------------|-----------------------|-----------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX8351      | 1                      | 25                       | 2                            | 3             | 1.5                  | 2.2-5.5                  | 2                 | 2                     | 250             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8351B     | 1                      | 25                       | 2                            | 3             | 1.5                  | 2.2-5.5                  | 2                 | 2                     | 250             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8352      | 2                      | 25                       | 2                            | 3             | 1.5                  | 2.2-5.5                  | 2                 | 2                     | 250             | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8354      | 4                      | 25                       | 2                            | 3             | 1.5                  | 2.2-5.5                  | 2                 | 2                     | 250             | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8361      | 1                      | 20                       | 2                            | 6             | 3                    | 2.2-5.5                  | 2                 | 2                     | 580             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8361B     | 1                      | 20                       | 2                            | 6             | 3                    | 2.2-5.5                  | 2                 | 2                     | 580             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8362      | 2                      | 20                       | 2                            | 6             | 3                    | 2.2-5.5                  | 2                 | 2                     | 580             | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8364      | 4                      | 20                       | 2                            | 6             | 3                    | 2.2-5.5                  | 2                 | 2                     | 580             | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8371      | 1                      | 10                       | 2                            | 10            | 7                    | 2.2-5.5                  | 2                 | 2                     | 1450            | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8371B     | 1                      | 10                       | 2                            | 10            | 7                    | 2.2-5.5                  | 2                 | 2                     | 1450            | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8372      | 2                      | 10                       | 2                            | 10            | 7                    | 2.2-5.5                  | 2                 | 2                     | 1450            | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8374      | 4                      | 10                       | 2                            | 10            | 7                    | 2.2-5.5                  | 2                 | 2                     | 1450            | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8311      | 1                      | 18                       | 2                            | 3.6           | 1.6                  | 1.8-5.5                  | 2                 | 2                     | 370             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8311B     | 1                      | 18                       | 2                            | 3.6           | 1.6                  | 1.8-5.5                  | 2                 | 2                     | 370             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8312      | 2                      | 18                       | 2                            | 3.6           | 1.6                  | 1.8-5.5                  | 2                 | 2                     | 370             | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8314      | 4                      | 18                       | 2                            | 3.6           | 1.6                  | 1.8-5.5                  | 2                 | 2                     | 370             | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8321      | 1                      | 14                       | 2                            | 6.5           | 3.2                  | 1.8-5.5                  | 2                 | 2                     | 700             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8321B     | 1                      | 14                       | 2                            | 6.5           | 3.2                  | 1.8-5.5                  | 2                 | 2                     | 700             | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8322      | 2                      | 14                       | 2                            | 6.5           | 3.2                  | 1.8-5.5                  | 2                 | 2                     | 700             | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8324      | 4                      | 14                       | 2                            | 6.5           | 3.2                  | 1.8-5.5                  | 2                 | 2                     | 700             | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8331      | 1                      | 11                       | 2                            | 10            | 6                    | 1.8-5.5                  | 2                 | 2                     | 1350            | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8331B     | 1                      | 11                       | 2                            | 10            | 6                    | 1.8-5.5                  | 2                 | 2                     | 1350            | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8332      | 2                      | 11                       | 2                            | 10            | 6                    | 1.8-5.5                  | 2                 | 2                     | 1350            | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8334      | 4                      | 11                       | 2                            | 10            | 6                    | 1.8-5.5                  | 2                 | 2                     | 1350            | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8341      | 1                      | 10                       | 2                            | 15            | 11                   | 1.8-5.5                  | 2                 | 2                     | 2450            | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8341B     | 1                      | 10                       | 2                            | 15            | 11                   | 1.8-5.5                  | 2                 | 2                     | 2450            | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8342      | 2                      | 10                       | 2                            | 15            | 11                   | 1.8-5.5                  | 2                 | 2                     | 2450            | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8344      | 4                      | 10                       | 2                            | 15            | 11                   | 1.8-5.5                  | 2                 | 2                     | 2450            | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |

音频运算放大器

Audio Operational Amplifier

| Part Number | Amplifiers per Package | Enoise Typ@1kHz (nV/ $\sqrt{\text{Hz}}$ ) | GBW Typ (MHz) | Slew Rate Typ (V/us) | Total Supply Voltage (V) | Vos(Offset Voltage) Max@25°C (mV) | Iq/Amp Typ (mA) | IB Typ (nA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package    |
|-------------|------------------------|-------------------------------------------|---------------|----------------------|--------------------------|-----------------------------------|-----------------|-------------|---------------|---------------|------------------|----------------------------------|------------|
| CX4558      | 2                      | 12                                        | 3.5           | 1.5                  | 8-36                     | 6                                 | 1.75            | 25          | 95            | 100           | YES              | -40 ~ 85                         | SOP8,MSOP8 |
| CX4580      | 2                      | 5                                         | 15            | 5                    | 4-36                     | 3                                 | 3               | 100         | 110           | 110           | YES              | -40 ~ 85                         | SOP8,MSOP8 |
| CX5532      | 2                      | 5                                         | 10            | 9                    | 6-44                     | 4                                 | 4.5             | 200         | 100           | 100           | YES              | -40 ~ 85                         | SOP8,MSOP8 |

通用运算放大器

General Operational Amplifier

| Part Number | Amplifiers per Package | Iq/Amp Typ (uA) | Total Supply Voltage (V) | GBW Typ (MHz) | Vos Max@25°C (mV) | Slew Rate Typ (V/us) | TC of Vos Typ (uV/°C) | Enosie Typ@1kHz (nV/ $\sqrt{\text{Hz}}$ ) | IB Typ (pA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|-----------------|--------------------------|---------------|-------------------|----------------------|-----------------------|-------------------------------------------|-------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX8631      | 1                      | 1.2             | 1.4-5.5                  | 0.03          | 1.5               | 0.01                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8631B     | 1                      | 1.2             | 1.4-5.5                  | 0.03          | 1.5               | 0.01                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8632      | 2                      | 1.2             | 1.4-5.5                  | 0.03          | 1.5               | 0.01                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8634      | 4                      | 1.2             | 1.4-5.5                  | 0.03          | 1.5               | 0.01                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8641      | 1                      | 2.5             | 1.4-5.5                  | 0.06          | 1.5               | 0.02                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8641B     | 1                      | 2.5             | 1.4-5.5                  | 0.06          | 1.5               | 0.02                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8642      | 2                      | 2.5             | 1.4-5.5                  | 0.06          | 1.5               | 0.02                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8644      | 4                      | 2.5             | 1.4-5.5                  | 0.06          | 1.5               | 0.02                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8651      | 1                      | 5               | 1.4-5.5                  | 0.12          | 1.5               | 0.04                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8651B     | 1                      | 5               | 1.4-5.5                  | 0.12          | 1.5               | 0.04                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8652      | 2                      | 5               | 1.4-5.5                  | 0.12          | 1.5               | 0.04                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8654      | 4                      | 5               | 1.4-5.5                  | 0.12          | 1.5               | 0.04                 | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8411      | 1                      | 18              | 2.2-5.5                  | 0.6           | 0.8               | 0.3                  | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8411B     | 1                      | 18              | 2.2-5.5                  | 0.6           | 0.8               | 0.3                  | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8412      | 2                      | 18              | 2.2-5.5                  | 0.6           | 0.8               | 0.3                  | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8414      | 4                      | 18              | 2.2-5.5                  | 0.6           | 0.8               | 0.3                  | 5                     | 70                                        | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |

通用运算放大器  
General Operational Amplifier

| Part Number | Amplifiers per Package | Iq/Amp Typ (uA) | Total Supply Voltage (V) | GBW Typ (MHz) | Vos Max@25°C (mV) | Slew Rate Typ (V/us) | TC of Vos Typ (uV/°C) | Enosie Typ@1kHz (nV/√Hz) | IB Typ (pA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|-----------------|--------------------------|---------------|-------------------|----------------------|-----------------------|--------------------------|-------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX8421      | 1                      | 35              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8421B     | 1                      | 35              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8422      | 2                      | 35              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8424      | 4                      | 35              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8431      | 1                      | 65              | 2.2-5.5                  | 1.5           | 2                 | 1                    | 5                     | 30                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8431B     | 1                      | 65              | 2.2-5.5                  | 1.5           | 2                 | 1                    | 5                     | 30                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8432      | 2                      | 65              | 2.2-5.5                  | 1.5           | 2                 | 1                    | 5                     | 30                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8434      | 4                      | 65              | 2.2-5.5                  | 1.5           | 2                 | 1                    | 5                     | 30                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX321       | 1                      | 36              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX321B      | 1                      | 36              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOT23-5       |
| CX358       | 2                      | 36              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX324       | 4                      | 36              | 2.2-5.5                  | 1.2           | 2                 | 0.7                  | 5                     | 50                       | 1           | 100           | 85            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |

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

| Part Number | Amplifiers per Package | Iq/Amp Typ (nA) | Total Supply Voltage (V) | GBW Typ (KHz) | Slew Rate Typ (V/ms) | Enoise Typ@0.1Hz~10Hz (uVpp) | Vos Max@25°C (mV) | TC of Vos Typ (uV/°C) | IB Typ (pA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|-----------------|--------------------------|---------------|----------------------|------------------------------|-------------------|-----------------------|-------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX8611      | 1                      | 400             | 1.4-5.5                  | 7             | 2.5                  | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8611B     | 1                      | 400             | 1.4-5.5                  | 7             | 2.5                  | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8612      | 2                      | 400             | 1.4-5.5                  | 7             | 2.5                  | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8614      | 4                      | 400             | 1.4-5.5                  | 7             | 2.5                  | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8621      | 1                      | 700             | 1.4-5.5                  | 15            | 5                    | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8621B     | 1                      | 700             | 1.4-5.5                  | 15            | 5                    | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8622      | 2                      | 700             | 1.4-5.5                  | 15            | 5                    | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8624      | 4                      | 700             | 1.4-5.5                  | 15            | 5                    | 3.5                          | 1.5               | 5                     | 1           | 85            | 75            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |

高压运算放大器

High Voltage Operational Amplifier

| Part Number | Amplifiers per Package | Vos Max@25°C (mV) | Iq/Amp Typ (mA) | Total Supply Voltage (V) | GBW Typ (MHz) | Slew Rate Typ (V/us) | TC of Vos Typ (uV/°C) | Enosie Typ@1kHz (nV/√Hz) | IB Typ (nA) | CMRR Typ (dB) | PSRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|-------------------|-----------------|--------------------------|---------------|----------------------|-----------------------|--------------------------|-------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX321H      | 1                      | 3.5               | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX321BH     | 1                      | 3.5               | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX358H      | 2                      | 3.5               | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP8,MSOP8    |
| CX324H      | 4                      | 3.5               | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8711      | 1                      | 3                 | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX8711B     | 1                      | 3                 | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX8712      | 2                      | 3                 | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8714      | 4                      | 3                 | 0.2             | 3-36                     | 1.3           | 0.7                  | 0.5                   | 55                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8721      | 1                      | 3                 | 1               | 3-36                     | 3.5           | 2.7                  | 0.5                   | 35                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX8721B     | 1                      | 3                 | 1               | 3-36                     | 3.5           | 2.7                  | 0.5                   | 35                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX8722      | 2                      | 3                 | 1               | 3-36                     | 3.5           | 2.7                  | 0.5                   | 35                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8724      | 4                      | 3                 | 1               | 3-36                     | 3.5           | 2.7                  | 0.5                   | 35                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8731      | 1                      | 3                 | 1               | 3-36                     | 7.5           | 7                    | 0.5                   | 30                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX8731B     | 1                      | 3                 | 1               | 3-36                     | 7.5           | 7                    | 0.5                   | 30                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOT23-5       |
| CX8732      | 2                      | 3                 | 1               | 3-36                     | 7.5           | 7                    | 0.5                   | 30                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8734      | 4                      | 3                 | 1               | 3-36                     | 7.5           | 7                    | 0.5                   | 30                       | 10          | 100           | 100           | RRO              | -40 ~ 125                        | SOP14,TSSOP14 |
| ★ LM321     | 1                      | 2.5               | 0.45            | 3-32                     | 1.1           | 0.6                  | 5                     | 30                       | 20          | 100           | 100           | -                | -40 ~ 125                        | SOT23-5       |
| ★ LM358     | 2                      | 7                 | 0.35            | 3-30                     | 1.1           | 0.6                  | 7                     | 30                       | 20          | 100           | 100           | -                | -40 ~ 85                         | SOP8,MSOP8    |
| ★ LM324     | 4                      | 7                 | 0.3             | 3-30                     | 1.3           | 0.6                  | 7                     | 30                       | 20          | 100           | 110           | -                | -40 ~ 85                         | SOP14,TSSOP14 |
| ★ LM2904    | 2                      | 7                 | 0.3             | 3-32                     | 1.1           | 0.6                  | 7                     | 30                       | 20          | 100           | 100           | -                | -40 ~ 125                        | SOP8,MSOP8    |
| ★ LM2902    | 4                      | 7                 | 0.3             | 3-32                     | 1.2           | 0.6                  | 7                     | 30                       | 20          | 100           | 110           | -                | -40 ~ 125                        | SOP14,TSSOP14 |
| TL072       | 2                      | 6                 | 1.4             | 8-36                     | 3             | 13                   | 18                    | 18                       | 0.03        | 100           | 100           | -                | -40 ~ 125                        | SOP8          |
| TL074       | 4                      | 6                 | 1.4             | 8-36                     | 3             | 13                   | 18                    | 18                       | 0.03        | 100           | 101           | -                | -40 ~ 125                        | SOP14         |
| TL082       | 2                      | 6                 | 1.4             | 8-36                     | 3             | 13                   | 18                    | 18                       | 0.03        | 100           | 102           | -                | -40 ~ 125                        | SOP8          |
| TL084       | 4                      | 6                 | 1.4             | 8-36                     | 3             | 13                   | 18                    | 18                       | 0.03        | 100           | 103           | -                | -40 ~ 125                        | SOP14         |

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 (V) | Vos Max@25°C (mV) | Slew Rate Typ (V/us) | TC of Vos Typ (uV/°C) | Enoise Typ@1kHz (nV/√Hz) | IB Typ (pA) | PSRR Typ (dB) | CMRR Typ (dB) | Rail-to-Rail I/O | Operating Temperature Range (°C) | Package       |
|-------------|------------------------|---------------|-----------------|--------------------------|-------------------|----------------------|-----------------------|--------------------------|-------------|---------------|---------------|------------------|----------------------------------|---------------|
| CX8381      | 1                      | 20            | 2.4             | 2.2-5.5                  | 0.6               | 9                    | 2                     | 8                        | 1           | 80            | 90            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8381B     | 1                      | 20            | 2.4             | 2.2-5.5                  | 0.6               | 9                    | 2                     | 8                        | 1           | 80            | 90            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8382      | 2                      | 20            | 2.4             | 2.2-5.5                  | 0.6               | 9                    | 2                     | 8                        | 1           | 80            | 90            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8384      | 4                      | 20            | 2.4             | 2.2-5.5                  | 0.6               | 9                    | 2                     | 8                        | 1           | 80            | 90            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8221      | 1                      | 30            | 2.6             | 2.7-5.5                  | 1                 | 16                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8221B     | 1                      | 30            | 2.6             | 2.7-5.5                  | 1                 | 16                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8222      | 2                      | 30            | 2.6             | 2.7-5.5                  | 1                 | 16                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8224      | 4                      | 30            | 2.6             | 2.7-5.5                  | 1                 | 16                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |
| CX8231      | 1                      | 45            | 3.7             | 2.7-5.5                  | 1                 | 30                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8231B     | 1                      | 45            | 3.7             | 2.7-5.5                  | 1                 | 30                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOT23-5       |
| CX8232      | 2                      | 45            | 3.7             | 2.7-5.5                  | 1                 | 30                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOP8,MSOP8    |
| CX8234      | 4                      | 45            | 3.7             | 2.7-5.5                  | 1                 | 30                   | 2                     | 8                        | 1           | 90            | 80            | YES              | -40 ~ 125                        | SOP14,TSSOP14 |

比较器

Comparator

| Part Number | Comparators per Package | Iq/Comp Typ (uA) | 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 Type | Operating Temperature Range (°C) | Package       |
|-------------|-------------------------|------------------|-------------------------------------|-----------|-------------------|---------------------------|---------------------------|--------------------|--------------------|-------------------|----------------------------------|---------------|
| ★ CX331     | 1                       | 6                | 0-3                                 | 1.8 - 5.5 | 6                 | 450                       | 840                       | 260                | 7                  | Open-Drain        | -40 ~ 125                        | SOT23-5       |
| ★ CX393     | 2                       | 6                | 0-3                                 | 1.8 - 5.5 | 6                 | 450                       | 840                       | 260                | 7                  | Open-Drain        | -40 ~ 125                        | SOP8,MSOP8    |
| CX9211      | 1                       | 140              | -0.2~5.2                            | 2.7 - 5.5 | 7                 | 35                        | 42                        | 4                  | 3.5                | Push-Pull         | -40 ~ 125                        | SOT23-5       |
| CX9212      | 2                       | 140              | -0.2~5.2                            | 2.7 - 5.5 | 7                 | 35                        | 42                        | 4                  | 3.5                | Push-Pull         | -40 ~ 125                        | SOP8,MSOP8    |
| ★ LM331     | 1                       | 300              | -                                   | 2-36      | 3                 | -                         | 1300                      | -                  | -                  | Open-Drain        | -40 ~ 125                        | SOT23-5       |
| ★ LM2903    | 2                       | 225              | -                                   | 2-36      | 5                 | -                         | 1300                      | -                  | -                  | Open-Drain        | -40 ~ 125                        | SOP8,MSOP8    |
| ★ LM2901    | 4                       | 200              | -                                   | 2-36      | 5                 | -                         | 1300                      | -                  | -                  | Open-Drain        | -40 ~ 125                        | SOP14,TSSOP14 |

# ANALOG SWITCHES

## 模拟开关

### 通用模拟开关 General 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                 |
|-------------|----|------|---------------------------|----------------------|---------------------------|---------------------------|---------------------|----------------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|-------------------------|
| CX3157      | 1  | 1:2  | 1.5                       | 700                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | SC70-6, SOT23-6, DFN1x1 |
| CX7227      | 2  | 1:2  | 1.5                       | 700                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | QFN1.4x1.8-10L          |
| CX3699      | 4  | 1:2  | 1.8                       | 700                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | QFN1.8x2.6-16L          |
| CX4717      | 2  | 1:2  | 1.5                       | 850                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | MSOP-10                 |
| CX3798      | 1  | 1:2  | 5                         | 100                  | 2.6                       | 5.5                       | 4                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | CSP1.2x1.2-9B           |
| CX3005      | 2  | 1:2  | 1.5                       | 850                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | MSOP-10                 |
| CX44159     | 4  | 1:2  | 1.5                       | 850                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | 200                        | 200                         | -40 ~ 85                         | SOP16,TSSOP16           |
| CX44599     | 4  | 1:2  | 1.5                       | 700                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | -                          | -                           | -40 ~ 85                         | QFN3x3-16L              |
| CX48751     | 1  | 1:8  | 1.5                       | 700                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | -                          | -                           | -40 ~ 85                         | QFN3x3-16L              |
| CX48752     | 2  | 1:4  | 1.5                       | 700                  | 1.5                       | 5.5                       | 1                   | 1.6                              | 0.6                              | -                          | -                           | -40 ~ 85                         | QFN3x3-16L              |
| CX74457     | 3  | 1:1  | 55                        | 10                   | 1                         | 3.6                       | 1                   | 0.7*VCC                          | 0.3*VCC                          | -                          | -                           | -40 ~ 85                         | QFN1.4x1.8-10L          |
| CX4051      | 1  | 1:8  | 220                       | 17                   | 3                         | 18                        | 5                   | 2.75                             | 2.25                             | -                          | -                           | -40 ~ 85                         | SOP16,TSSOP16           |
| CX4052      | 2  | 1:4  | 220                       | 17                   | 3                         | 18                        | 5                   | 3.5                              | 1.5                              | -                          | -                           | -40 ~ 85                         | SOP16,TSSOP16           |
| CX4053      | 3  | 1:2  | 220                       | 17                   | 3                         | 18                        | 5                   | 3.5                              | 1.5                              | -                          | -                           | -40 ~ 85                         | SOP16,TSSOP16           |
| CX4066      | 4  | 1:1  | 300                       | 40                   | 3                         | 18                        | 0.25                | 3.5                              | 1                                | -                          | -                           | -40 ~ 85                         | SOP14,TSSOP14           |

音频模拟开关  
Audio 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                |
|-------------|----|------|---------------------------|----------------------|---------------------------|---------------------------|---------------------|----------------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|------------------------|
| CX550       | 4  | 1:1  | 0.5                       | 200                  | 1.6                       | 3                         | 40                  | 0.8*V <sub>CC</sub>              | 0.2*V <sub>CC</sub>              | 160                        | 90                          | -40 ~ 85                         | WLCSP12,QFN16-3.0X3.0  |
| CX553       | 2  | 1:1  | 0.5                       | 200                  | 1.6                       | 3                         | 40                  | 0.8*V <sub>CC</sub>              | 0.2*V <sub>CC</sub>              | 160                        | 90                          | -40 ~ 85                         | DFN3X3-8               |
| CX5121      | 2  | 1:2  | 0.4                       | 55                   | 1.65                      | 5.5                       | 1                   | 0.4*V <sub>CC</sub>              | 0.5                              | 25                         | 15                          | -40 ~ 85                         | UQFN1.4X1.8-10, MSOP10 |

高速模拟开关  
High Speed Analog Switches

| Part Number | CH | Type | R <sub>ON</sub> (@5V) (Ω) | -3dB Bandwidth (GHz) | 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                       |
|-------------|----|------|---------------------------|----------------------|---------------------------|---------------------------|---------------------|----------------------------------|----------------------------------|----------------------------|-----------------------------|----------------------------------|-------------------------------|
| CX3000      | 2  | 1:2  | 8                         | 5.1                  | 1.5                       | 5.5                       | 28                  | 1.6                              | 0.6                              | 40000                      | 1200                        | -40 ~ 85                         | QFN1.5x2-10L                  |
| CX3340      | 4  | 1:2  | 8                         | 5.1                  | 1.5                       | 5.5                       | 28                  | 1.6                              | 0.6                              | 80000                      | 1200                        | -40 ~ 85                         | QFN2x3-18L                    |
| CX1646      | 10 | 1:2  | 10                        | 3.5                  | 1.65                      | 5.5                       | 30                  | 1.6                              | 0.4                              | 80000                      | 1200                        | -40 ~ 85                         | CSP2.4x2.4-36B                |
| CX3402      | 2  | 1:2  | 10                        | 1                    | 2.5                       | 5.5                       | 33                  | 1.6                              | 0.5                              | 20000                      | 1200                        | -40 ~ 85                         | CSP1.2x1.6-12B                |
| CX5000      | 2  | 1:2  | 10                        | 1                    | 2.5                       | 5.5                       | 33                  | 1.6                              | 0.5                              | 20000                      | 1200                        | -40 ~ 85                         | QFN1.4x1.8-10L,QFN1.5x2.0-10L |
| CX4480      | 4  | 1:2  | 4.8                       | 1.4                  | 2.7                       | 20                        | 270                 | 1.6                              | 0.5                              | -                          | -                           | -40 ~ 85                         | CSP2.04x2.04-25B              |
| CX7222      | 2  | 1:2  | 10                        | 1                    | 2.5                       | 5.5                       | 2                   | 1.6                              | 0.6                              | -                          | -                           | -40 ~ 85                         | QFN1.4x1.8-10L                |

# VOLTAGE REFERENCE

## 电压基准源芯片

### 并联电压基准源芯片

Shunt Voltage References

| Part Number | V <sub>REF</sub> (V) | Voltage Tolerance | V <sub>KA</sub> (V) | I <sub>REF</sub> (Max,uA) | I <sub>KA</sub> (Min, mA) | Temperature Coefficient | Operating Temperature Range (°C) | Package |
|-------------|----------------------|-------------------|---------------------|---------------------------|---------------------------|-------------------------|----------------------------------|---------|
| CX431A      | 2.5                  | 0.5%              | 2.5~36              | 4                         | 1                         | 50ppm/°C                | -40 ~ 125                        | SOT23   |
| CX431       | 2.5                  | 1%                | 2.5~36              | 4                         | 1                         | 50ppm/°C                | -40 ~ 125                        | SOT23   |
| CX432A      | 2.5                  | 0.5%              | 2.5~36              | 4                         | 1                         | 50ppm/°C                | -40 ~ 125                        | SOT23   |
| CX432       | 2.5                  | 1%                | 2.5~36              | 4                         | 1                         | 50ppm/°C                | -40 ~ 125                        | SOT23   |

# LINEAR REGULATOR

## 线性稳压器

### 线性稳压器 Linear Regulator

| Part Number | Input Voltage Range (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) | Vout (V)                                                        | Output Voltage Accuracy          | Features                 | Operating Temperature Range (°C) | Package                                         |
|-------------|-------------------------|---------------------|-------------------------------|---------------------------------------------------|-----------------|------------------------------|-----------------------------------------------------------------|----------------------------------|--------------------------|----------------------------------|-------------------------------------------------|
| CX6131      | 2.2~5.5                 | 300                 | 60                            | 220                                               | 70              | 160                          | 1.1, 1.2, 1.5, 1.8, 2.2, 2.5, 2.8, 3.0, 3.3                     | Vout>1.5V: ±2%<br>Vout≤1.5V: ±3% |                          | -40 ~ 85                         | SOT23-3, SOT23-5, DFN-4(1*1)                    |
| CX6132      | 1.6~5.5                 | 300                 | 20                            | 130                                               | 75              | 100                          | ADJ                                                             | ±2%                              |                          | -40 ~ 85                         | SOT23-5                                         |
| CX6133      | 2.2~5.5                 | 300                 | 23                            | 140                                               | 100             | 10                           | 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3                               | ±2%                              | High PSRR                | -40 ~ 85                         | SOT23-3, SOT23-5, DFN-4(1*1)                    |
| CX6151      | 2.2~5.5                 | 500                 | 20                            | 240                                               | 70              | /                            | 1.2, 1.5, 1.8, 2.0, 2.2, 2.5, 2.8, 3.0, 3.3                     | ±2%                              |                          | -40 ~ 85                         | SOT23-3, SOT23-5, DFN-4(1*1)                    |
| CX6152      | 0.8~5.5                 | 500                 | 45                            | 180                                               | 70              | 40                           | 0.6, 0.8, 1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, ADJ           | ±1.5%                            | Ultra-Low Voltage Output | -40 ~ 85                         | SOT23-3, SOT23-5, DFN-4(1*1)                    |
| CX6153      | 1.6~5.5                 | 500                 | 85                            | 150                                               | 75              | 46                           | 0.8, 1.0, 1.2, 1.5, 1.8, 2.8, 3.0, 3.3                          | ±1%                              |                          | -40 ~ 85                         | SOT23-3, DFN-4(1*1), SOT23-5                    |
| CX6114      | 2.5~5.5                 | 500/1000            | 150                           | 65/130                                            | 60              | 50                           | 1.8, 2.8, 3.0, 3.3                                              | ±2%                              | 500mA/1A Optional        | -40 ~ 85                         | DFN-8(1.2*1.6) , SOT23-5                        |
| CX6115      | 1.5~6                   | 1000                | 25                            | 245                                               | 50              | /                            | ADJ                                                             | ±0.7%                            |                          | -40 ~ 85                         | DFN-6(2*2) SOT23-5                              |
| CX6218      | 2.3~20                  | 1500                | 1000                          | 320                                               | 60              | 15                           | 1.8,2.5,3.3,adj                                                 | ±2%                              | Low noise                | -40 ~ 85                         | SOT223-3,SOP8,TO263-5                           |
| CX6331      | 1.8~8                   | 300                 | 1                             | 330                                               | 50              | 27*Vout                      | 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6, 4.5, 5.0                | ±2%                              | Ultra-Low IQ             | -40 ~ 85                         | SOT23-3, SOT23-5, SOT89-3, DFN-4(1*1)           |
| CX6432      | 2.5~18                  | 300                 | 3                             | 370                                               | 75              | 27                           | 1.2, 1.5, 1.8, 2.0, 2.2, 2.5, 2.8, 3.0, 3.3, 3.6, 4.0, 4.5, 5.0 | ±2%                              | Ultra-Low IQ             | -40 ~ 85                         | SOT23-3, SOT23-5, DFN-6(2*2), SOT89-3, SOT89-3L |
| CX6451      | 2.5~18                  | 500                 | 3                             | 650                                               | 75              | 27*Vout                      | 1.2, 1.5, 1.8, 2.0, 2.2, 2.5, 2.8, 3.0, 3.3, 3.6, 4.0, 4.5, 5.0 | ±2%                              | Ultra-Low IQ             | -40 ~ 85                         | SOT23-3, SOT23-5, SOT89-3, SOT89-3L, DFN-6(2*2) |
| CX73XX-1    | 2.5~45                  | 300                 | 3                             | 1000                                              | 60              | 100                          | 1.8,2.5,3.0,3.3,3.6,4.4,5.0                                     | ±2%                              | Ultra-Low IQ             | -40 ~ 85                         | SOT223,SOT23-3, SOT23-5,SOT89-3                 |
| CX73XX-2    | 2.5~45                  | 300                 | 3                             | 1000                                              | 60              | 100                          | 1.8,2.5,3.0,3.3,3.6,4.4,5.0                                     | ±1%                              | Ultra-Low IQ             | -40 ~ 85                         | SOT223,SOT23-3, SOT23-5,SOT89-3                 |
| CX73XX-7    | 2.5~45                  | 300                 | 3                             | 1000                                              | 60              | 100                          | 1.8,2.5,3.0,3.3,3.6,4.4,5.0                                     | ±2%                              | Ultra-Low IQ TSHND 180°C | -40 ~ 85                         | SOT223,SOT23-3, SOT23-5,SOT89-3                 |
| CX75XX-1    | 2.5~36                  | 150                 | 2                             | 840                                               | —               | 90                           | 2.5,3.0,3.3,3.6,4.4,5.0                                         | ±2%                              | Ultra-Low IQ             | -40 ~ 85                         | SOT23-3, SOT89-3                                |
| CX75XX-2    | 2.5~36                  | 150                 | 2                             | 840                                               | —               | 90                           | 2.5,3.0,3.3,3.6,4.4,5.0                                         | ±1%                              | 0Ultra-Low IQ5           | -40 ~ 85                         | SOT23-3, SOT89-3                                |
| CX1117      | 3.0~15                  | 1A                  | 5mA                           | 1200                                              | 75 @120Hz       | 0.003% of Vout               | 1.2,1.8,2.5,3.3,5.0,ADJ                                         | ±2%                              | OCP, OTP                 | -40 ~ 85                         | SOT223,SOT89-2, TO252                           |
| CX78L05     | 2.5~36                  | 100                 | 2                             | —                                                 | —               | —                            | 5.0                                                             | ±1%                              | —                        | -40 ~ 85                         | SOT89-3,TO-92                                   |

DC-DC  
DC-DC

DC-DC  
DC-DC

| Part Number | DC-DC Topology | Switch Current Limit (mA) | Quiescent Current (μA) | Input Voltage Range (V) | Efficiency Max | Output Voltage (V) | Switching Frequency (MHz) | Shutdown Current (μA) | Features                                                  | Package  |
|-------------|----------------|---------------------------|------------------------|-------------------------|----------------|--------------------|---------------------------|-----------------------|-----------------------------------------------------------|----------|
| CX3143      | Sync Buck      | 4500                      | 30                     | 3.0~36                  | 95%            | ADJ                | 0.41                      | 8                     | With power good functiong                                 | QFN-8    |
| CX3142      | Sync Buck      | 3500                      | 30                     | 3.0~36                  | 95%            | ADJ                | 0.41                      | 8                     | With power good functiong                                 | TSOT23-8 |
| CX312x      | Sync Buck      | 3400                      | 3                      | 3.0~36                  | 92.5%          | ADJ                | 0.4/1.4/2.1               | 2.9                   | Ultralow Operating Quiescent Current                      | EMOP8    |
| CX313x      | Sync Buck      | 4400                      | 3                      | 3.0~36                  | 92.5%          | ADJ                | 0.4/1.4/2.1               | 2.9                   | Ultralow Operating Quiescent Current                      | EMOP8    |
| CX3109      | Sync Buck      | 5500                      | 1.5                    | 3.0~42                  | 92.5%          | ADJ                | 0.2~2.2                   | 1                     | Output ripple<10mVpp                                      | DFN-10   |
| CX5157      | Non-Sync Boost | 8000                      | 600                    | 2.9~45                  | /              | ADJ                | 0.1~2.2                   | 2                     | Boost/SEPIC/Flyback Converter with Random Spread Spectrum | QFN-16   |
| CX3478      | Non-Sync Boost | 5000                      | 800                    | 2.9~45                  | 94%            | ADJ                | 0.1~1.2                   | 6                     | High-Efficiency Low-Side N-Channel MOSFET Controller      | MSOP8    |

# EFUSE

## eFuse

eFuse  
eFuse

| Part Number | V <sub>IN</sub> (V) | I <sub>MAX</sub> (A) | I <sub>Q</sub> (uA) | V <sub>OVLO</sub> (V) | V <sub>UVLO</sub> (V) | I <sub>OCP</sub> (A) | R <sub>ON</sub> (mΩ) | T <sub>OFF</sub> (ns) | T <sub>SHDN</sub> (°C) | T <sub>A</sub> (°C) | MPQ (PCS) | Package         |
|-------------|---------------------|----------------------|---------------------|-----------------------|-----------------------|----------------------|----------------------|-----------------------|------------------------|---------------------|-----------|-----------------|
| CX2211      | 3.0~36              | 2.5                  | 110                 | 5.85                  | 2.5                   | 3.1                  | 110                  | 100                   | 155                    | -40°C~85°C          | 3000      | SOT23-6         |
| CX2212      | 4.0~60              | 2                    | 120                 | ADJ/15~24             | 3                     | —                    | 110                  | 300                   | 155                    | -40°C~85°C          | 3000      | SOT23-5         |
| CX2231      | 3.5~32              | 1.2                  | 110                 | 6                     | 2.7                   | ADJ/0.1~1.5          | 220                  | 50                    | 150                    | -40°C~85°C          | 3000      | SOT23-6         |
| CX2232      | 3.5~32              | 1.2                  | 110                 | 6                     | 2.7                   | ADJ/0.1~1.5          | 220                  | 50                    | 150                    | -40°C~85°C          | 3000      | DFN-8(2x2)      |
| CX2131      | 2.5~28              | —                    | 90                  | ADJ/5.95~14           | 2.1                   | —                    | 30                   | 50                    | 150                    | -40°C~85°C          | 3000      | DFN-12(1.8x1.4) |

# LOAD SWITCH

## 负载开关

### 负载开关 Load Switch

| Part Number | V <sub>IN</sub> (V) | I <sub>Q</sub> (uA) | I <sub>LIM</sub> (A) | PRECISION | R <sub>ON</sub> (mΩ) | Fault Flag | Enable Logic | T <sub>A</sub> (°C) | MPQ (PCS) | Package                  |
|-------------|---------------------|---------------------|----------------------|-----------|----------------------|------------|--------------|---------------------|-----------|--------------------------|
| CX5336      | 2.5~5.5             | 28                  | 1.0,1.5,2.0          | 20%@1A    | 70                   | YES        | Active High  | -40°C~85°C          | 3000      | SOT23-3,SOT23-5,SOT23-5L |
| CX5339      | 2.5~5.5             | 28                  | ADJ/0.4~2.0          | 20%@1A    | 70                   | NO         | Active High  | -40°C~85°C          | 3000      | SOT23-5                  |
| CX5347      | 2.7~6.0             | 30                  | 0.5~3.0              | 20%       | 55                   | YES        | Active High  | -40°C~85°C          | 3000      | TSOT23-5                 |