



ANALOG PRODUCTS SELECTION

模拟产品选型



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ABOUT 3PEAK

关于思瑞浦

思瑞浦微电子科技(苏州)股份有限公司(英文:3PEAKINCORPORATED, 股票代码:688536),成立于2012年,2020年9月21日在上海证券交易所科创板上市。

公司始终坚持研发高性能、高质量和高可靠性的集成电路产品,包括信号链模拟芯片、电源管理模拟芯片和数模混合模拟前端,并逐渐融合嵌入式处理器,为客户提供全方面的解决方案。其应用范围涵盖信息通讯、工业控制、监控安全、医疗健康、仪器仪表、新能源和汽车等众多领域。

Established in 2012, 3PEAK was listed on the Shanghai Science and Technology Innovation Board on September 21, 2020. The company is committed to the research and development of high-performance, high-quality, and highly reliable integrated circuit products, including signal chains, power analog chips, mixed-signal front-ends, and embedded processors to provide customers with all-around solutions. The applications of the products cover many fields such as communication, industrial, security monitoring, medical and health, instrumentation, new energy, and automotive industry.

目录 CATALOG

线性产品 / Linear Products

| | |
|------------------------------------|---------|
| 运算放大器 Operational Amplifiers | 3 to 8 |
| 特殊放大器 Special Amplifiers..... | 9 to 11 |
| 传感器接口 Sensor Interface..... | 12 |
| 模拟开关 Analog Switch..... | 13 |
| 比较器 Comparators..... | 14 |

接口产品 / Interface

| | |
|--------------------------------------|----|
| CAN CAN | 15 |
| MLVDS MLVDS | 15 |
| I2C Level Shift I2C Level Shift..... | 16 |
| IO Expander IO Expander..... | 16 |
| RS485 RS485 | 17 |
| RS232 RS232 | 17 |

隔离器件 / Isolation

| | |
|------------------------------|----|
| 数字隔离器 Digital Isolator | 18 |
| 隔离 CAN ISO-CAN..... | 19 |
| 隔离 RS485 ISO-RS485..... | 19 |
| 隔离 I2C ISO-I2C | 19 |
| 隔离放大器 ISO-Amplifier | 20 |
| 隔离调制器 ISO-Modulator | 20 |

数据转换器 / Data Converter

| | |
|---|----|
| 高精度转换器 Precision Converter..... | 21 |
| 高速转换器 High-Speed Converter..... | 22 |
| 多通道可配置模数 / 数模转换器 Multi-channel Configurable ADC/DAC Converter.. | 22 |
| 数字式电流 / 功率监测器 Current/Power Monitor | 22 |

线性稳压器与基准 / LDO&Voltage Reference

| | |
|--|----|
| LVLDO LVLDO | 23 |
| HVLDO HVLDO | 24 |
| 并联型电压基准 Shunt Voltage Reference | 25 |
| 串联型电压基准 Series Voltage Reference | 25 |

监控电源 / Supervisors

| | |
|---|----|
| 电源监控和复位芯片 Voltage Supervisors and Reset ICs | 26 |
| 集成看门狗的复位芯片 Reset ICs with Watchdog | 26 |
| 电源时序控制 Power Sequencer | 26 |

驱动器 / Drivers

| | |
|--|----|
| 步进马达驱动 Stepper Motor Drivers..... | 27 |
| 直流马达驱动 DC Motor Drivers..... | 27 |
| 非隔离栅极驱动 Non-isolated Gate Drivers..... | 28 |
| 隔离栅极驱动 Isolated Gate Drivers..... | 28 |

DCDC / DCDC

| | |
|---|----|
| 宽压降压转换器 Wide-Vin Buck Converter..... | 29 |
| 中压降压转换器 Mid-Voltage Buck Converter..... | 30 |
| 低压降压转换器 Low-Voltage Buck Converter..... | 30 |
| 升压转换器 Boost Converter..... | 30 |

电池管理 / Battery Management

| | |
|-----------------------------|----|
| 线性充电芯片 Linear Charger..... | 31 |
| 电池保护 Battery Protector..... | 31 |

运算放大器

OPERATIONAL AMPLIFIERS

低压低功耗运算放大器 (电源电压 <10V, 每通道电流 <10 μ A)

Low-Voltage Low-Power Operational Amplifiers (Supply Voltage <10V, Current per channel <10 μ A)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | I _q per channel (μ A)(Max) | GBWP (kHz)(Typ.) | Slew Rate (mV/ μ s)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μ V/ $^{\circ}$ C)(Typ.) | I _B (pA)(Typ.) | eN@1kHz (nV/ $\sqrt{\text{Hz}}$)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|------------|----|-------------------------|-------------------------|--|------------------|-------------------------------|--------------|---------------|--------------------------------|---------------|---------------------------------------|---------------------------|---|---------------------------|-----------------|
| TPA5511 | Preview | Industrial | 1 | 1.7 | 3.6 | 0.79 | 9 | 3 | Yes | Yes | 25 | 0.02 | 0.01 | 20 | 320 | 125 | SOT23-5 |
| TPA5512 | Preview | Industrial | 2 | 1.7 | 3.6 | 0.79 | 9 | 3 | Yes | Yes | 25 | 0.02 | 0.01 | 20 | 320 | 125 | SOP8, MSOP8 |
| TP2111 | Production | Industrial | 1 | 1.8 | 5.5 | 0.6 | 10 | 6 | Yes | Yes | 20 | 1.5 | 0.4 | 1 | 265 | 120 | SOT23-5, SC70-5 |
| TP2112 | Production | Industrial | 2 | 1.8 | 5.5 | 0.6 | 10 | 6 | Yes | Yes | 20 | 1.5 | 0.4 | 1 | 265 | 120 | SOP8, MSOP8 |
| TP2121 | Production | Industrial | 1 | 1.8 | 6 | 0.95 | 18 | 10 | Yes | Yes | 20 | 1.5 | 0.5 | 1 | 170 | 120 | SOT23-5, SC70-5 |
| TP2122 | Production | Industrial | 2 | 1.8 | 6 | 0.95 | 18 | 10 | Yes | Yes | 20 | 1.5 | 0.5 | 0.001 | 170 | 120 | SOP8, MSOP8 |
| TP2124 | Production | Industrial | 4 | 1.8 | 6 | 0.95 | 18 | 10 | Yes | Yes | 20 | 1.5 | 0.5 | 0.001 | 170 | 120 | SOP14, TSSOP14 |
| TP2191 | Production | Industrial | 1 | 1.8 | 6 | 0.9 | 18 | 10 | Yes | Yes | 20 | 0.6 | 0.4 | 1 | 170 | 120 | SC70-5 |
| TP1511 | Production | Industrial | 1 | 2.1 | 6 | 5.6 | 150 | 90 | Yes | Yes | 40 | 3 | 0.6 | 1 | 95 | 102 | SOT23-5 |
| TP1512 | Production | Industrial | 2 | 2.1 | 6 | 5.6 | 150 | 90 | Yes | Yes | 40 | 3 | 0.6 | 1 | 95 | 102 | SOP8, MSOP8 |
| TP1514 | Production | Industrial | 4 | 2.1 | 6 | 5.6 | 150 | 90 | Yes | Yes | 40 | 3 | 0.6 | 1 | 95 | 102 | SOP14 |

低压通用运算放大器 (电源电压 <10V, GBPW 0.1M~50MHz, Vos>0.5mV)
Low-Voltage General Operational Amplifiers (Supply Voltage<10V, GBPW 0.1M~50MHz, Vos>0.5mV)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/°C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|-----------------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|---------------|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------------|------------------------------------|
| TP1511 | Production | Industrial | 1 | 2.1 | 6 | 5.6 | 0.15 | 0.09 | Yes | Yes | 40 | 3 | 1 | 1 | 95 | 102 | SOT23-5 |
| TP1512 | Production | Industrial | 2 | 2.1 | 6 | 5.6 | 0.15 | 0.09 | Yes | Yes | 40 | 3 | 1 | 1 | 95 | 102 | SOP8、MSOP8 |
| TP1514 | Production | Industrial | 4 | 2.1 | 6 | 5.6 | 0.15 | 0.09 | Yes | Yes | 40 | 3 | 0.6 | 1 | 95 | 102 | SOP14 |
| TPA6531 | Production | Industrial | 1 | 1.75 | 5.5 | 25 | 0.5 | 0.15 | Yes | Yes | 90/240 | 1.5 | 1 | 25000 | 50 | 90 | SOT23-5 |
| TPA6532 | Production | Industrial | 2 | 1.75 | 5.5 | 25 | 0.5 | 0.15 | Yes | Yes | 90/240 | 1.5 | 1 | 25000 | 50 | 90 | SOP8、MSOP8 |
| TPA6544 | Production | Industrial | 4 | 1.75 | 5.5 | 25 | 0.5 | 0.15 | Yes | Yes | 90/240 | 1.5 | 1 | 25000 | 50 | 90 | SOP14、TSSOP14 |
| TP6001 | Production | Industrial | 1 | 2.1 | 6 | 130 | 1.3 | 0.7 | Yes | Yes | 50 | 3 | 1 | 1 | 27 | 110 | SOT23-5、SC70-5 |
| TP6002 | Production | Industrial | 2 | 2.1 | 6 | 130 | 1.3 | 0.7 | Yes | Yes | 50 | 3 | 1 | 1 | 27 | 110 | SOP8、MSOP8、DFN-8 |
| TP6004 | Production | Industrial | 4 | 2.1 | 6 | 130 | 1.3 | 0.7 | Yes | Yes | 50 | 3 | 1 | 1 | 27 | 110 | SOP14、TSSOP14 |
| TP2431 | Production | Industrial | 1 | 2.2 | 5.5 | 280 | 1.6 | 0.84 | Yes | Yes | 130 | 1 | 1 | 0.3 | 13 | 130 | SOT23-5 |
| TP2432 | Production | Industrial | 2 | 2.2 | 5.5 | 280 | 1.6 | 0.84 | Yes | Yes | 130 | 1 | 1 | 0.3 | 13 | 130 | SOP8、MSOP8 |
| TP2434 | Production | Industrial | 4 | 2.2 | 5.5 | 280 | 1.6 | 0.84 | Yes | Yes | 130 | 1 | 1 | 0.3 | 13 | 130 | SOP14、TSSOP14 |
| TP1561AL1 | Production | Industrial Automotive | 1 | 2.5 | 6 | 900 | 6 | 4.5 | Yes | Yes | 100 | 3 | 1 | 1 | 19 | 100 | SOT23-5 |
| TP1562AL1 | Production | Industrial Automotive | 2 | 2.5 | 6 | 900 | 6 | 4.5 | Yes | Yes | 100 | 3 | 1 | 1 | 19 | 100 | SOP8、MSOP8、TSSOP8、SOT23-8、DFN2X2-8 |
| TP1564AL1 | Production | Industrial Automotive | 4 | 2.5 | 6 | 900 | 6 | 4.5 | Yes | Yes | 100 | 3 | 1 | 1 | 19 | 100 | SOP14、TSSOP14 |
| TP2411 | Production | Industrial | 1 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 1 | 1 | 0.3 | 8.2 | 130 | SOT23-5 |
| TP2412 | Production | Industrial | 2 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 1 | 1 | 0.3 | 8.2 | 130 | SOP8、MSOP8、SOT23-8、TSSOP8 |
| TP2414 | Production | Industrial | 4 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 1 | 1 | 0.3 | 8.2 | 130 | SOP14、TSSOP14 |
| TPA6581 | Production | Industrial | 1 | 2.7 | 5.5 | 1500 | 10 | 8 | Yes | Yes | 135/120 | 2 | 0.1 | 10 | 10 | 120 | SOT23-5、SC70-5、DFN 0.8X0.8-4 |
| TPA6582 | Production | Industrial | 2 | 2.7 | 5.5 | 1500 | 10 | 8 | Yes | Yes | 135/120 | 2 | 0.1 | 10 | 10 | 120 | SOP8、MSOP8 |
| TPA6584 | Production | Industrial | 4 | 2.7 | 5.5 | 1500 | 10 | 8 | Yes | Yes | 135/120 | 2 | 0.1 | 10 | 10 | 120 | SOP14、TSSOP14 |
| TPA6551 | Preview | Industrial | 1 | 2.5 | 5.5 | / | 10 | 3 | Yes | Yes | 90/120 | 1 | 2 | 400000 | 10 | 100 | SOT23-5、SOT23-6 |
| TPA6552 | Preview | Industrial | 2 | 2.5 | 5.5 | / | 10 | 3 | Yes | Yes | 90/120 | 1 | 2 | 400,000 | 10 | 100 | SOP8、MSOP8 |
| TPA6554 | Preview | Industrial | 4 | 2.5 | 5.5 | / | 10 | 3 | Yes | Yes | 90/120 | 1 | 2 | 400,000 | 10 | 100 | SOP14、TSSOP14 |
| TP2402 | Production | Industrial | 2 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 1 | 1 | 0.3 | 7.3 | 130 | SOP8 |
| TP2404 | Production | Industrial | 4 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 1 | 1 | 0.3 | 7.3 | 130 | SOP14、TSSOP14 |

Contact 3PEAK Sales For More Products Information and Samples

低压精密运算放大器 (电源电压小于 10V, Vos ≤ 0.5mV) Low-Voltage Precision Operational Amplifiers (Supply Voltage < 10V, Vos ≤ 0.5mV)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/°C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|-----------------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|---------------|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------------|-----------------------|
| TPA5511 | Preview | Industrial | 1 | 1.7 | 3.6 | 0.79 | 0.009 | 0.003 | Yes | Yes | 25 | 0.02 | 0.01 | 20 | 320 | 125 | SOT23-5 |
| TPA5512 | Preview | Industrial | 2 | 1.7 | 3.6 | 0.79 | 0.009 | 0.003 | Yes | Yes | 25 | 0.02 | 0.01 | 20 | 320 | 125 | SOP8, MSOP8 |
| TPA5521 | Preview | Industrial | 1 | 1.7 | 3.6 | 15 | 0.1 | 0.02 | Yes | Yes | 25 | 0.02 | 0.01 | 50 | 100 | 125 | SOT23-5 |
| TPA5522 | Preview | Industrial | 2 | 1.7 | 3.6 | 15 | 0.1 | 0.02 | Yes | Yes | 25 | 0.02 | 0.01 | 50 | 100 | 125 | SOP8, MSOP8 |
| TP5531 | Production | Industrial | 1 | 1.8 | 5.5 | 55 | 0.35 | 0.16 | Yes | Yes | 60 | 0.01 | 0.008 | 50 | 55 | 140 | SOT23-5, SC70-5 |
| TP5532 | Production | Industrial | 2 | 1.8 | 5.5 | 55 | 0.35 | 0.16 | Yes | Yes | 60 | 0.01 | 0.008 | 50 | 55 | 140 | SOP8, MSOP8, DFN2X2-8 |
| TP5534 | Production | Industrial | 4 | 1.8 | 5.5 | 55 | 0.35 | 0.16 | Yes | Yes | 60 | 0.01 | 0.008 | 50 | 55 | 140 | SOP14, TSSOP14 |
| TP2331 | Production | Industrial | 1 | 2.2 | 5.5 | 280 | 1.6 | 0.84 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 13 | 130 | SOT23-5 |
| TP2332 | Production | Industrial | 2 | 2.2 | 5.5 | 280 | 1.6 | 0.84 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 13 | 130 | SOP8, MSOP8 |
| TP5591 | Production | Industrial | 1 | 1.8 | 5.5 | 1400 | 3.3 | 2.5 | Yes | Yes | 60 | 0.02 | 0.01 | 60 | 17 | 130 | SOT23-5, SOP8 |
| TP5592 | Production | Industrial | 2 | 1.8 | 5.5 | 1400 | 3.3 | 2.5 | Yes | Yes | 60 | 0.02 | 0.01 | 60 | 17 | 130 | SOP8, MSOP8 |
| TP5594 | Production | Industrial | 4 | 1.8 | 5.5 | 1400 | 3.3 | 2.5 | Yes | Yes | 60 | 0.02 | 0.01 | 60 | 17 | 130 | SOP14, TSSOP14 |
| TP5551 | Production | Industrial | 1 | 1.8 | 5.5 | 1400 | 3.5 | 2.5 | Yes | Yes | 60 | 0.005 | 0.008 | 50 | 15 | 120 | SOT23-5, SOP8 |
| TP5552 | Production | Industrial | 2 | 1.8 | 5.5 | 950 | 3.5 | 2.5 | Yes | Yes | 60 | 0.005 | 0.008 | 50 | 15 | 120 | SOP8, MSOP8 |
| TP5554 | Production | Industrial | 4 | 1.8 | 5.5 | 950 | 3.5 | 2.5 | Yes | Yes | 60 | 0.005 | 0.008 | 50 | 15 | 120 | TSSOP14 |
| TPA5561 | Preview | Industrial Automotive | 1 | 2.7 | 5.5 | 1000 | 3.5 | 4.7 | Yes | Yes | 60 | 0.0075 | 0.01 | 200 | 12 | 150 | SOT23-5 |
| TPA5562 | Preview | Industrial | 2 | 2.7 | 5.5 | 1000 | 3.5 | 4.7 | Yes | Yes | 60 | 0.0075 | 0.01 | 200 | 12 | 150 | SOP8, MSOP8 |
| TP2311 | Production | Industrial | 1 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 8.2 | 130 | SOT23-5 |
| TP2312 | Production | Industrial | 2 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 8.2 | 130 | SOP8, MSOP8, SOT23-8 |
| TP2314 | Production | Industrial | 4 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 8.2 | 130 | SOP14, TSSOP14 |
| TPA5581 | Preview | Industrial | 1 | 2.7 | 5.5 | 1200 | 15 | 5 | Yes | Yes | 160 | 0.01 | 0.01 | 100 | 10 | 150 | SOT23-5, SOT23-6 |
| TPA5582 | Preview | Industrial | 2 | 2.7 | 5.5 | 1200 | 15 | 5 | Yes | Yes | 160 | 0.01 | 0.01 | 100 | 10 | 150 | SOP8, MSOP8, DFN2X2-8 |
| TP2301 | Production | Industrial | 1 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 7.3 | 130 | SOT23-5 |
| TP2302 | Production | Industrial | 2 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 7.3 | 130 | SOP8, MSOP8 |

低压低噪声运算放大器 (电源电压 <10V, eN@1kHz ≤ 10nV/√ Hz)
Low-Voltage Low-Noise Operational Amplifiers (Supply Voltage<10V, eN@1kHz ≤ 10nV/√ Hz)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/° C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√ Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|---------------|--------------------------------|---------------|-----------------------|---------------|-------------------------|---------------------------|--------------------------------|
| TP2301 | Production | Industrial | 1 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 7.3 | 130 | SOT23-5 |
| TP2302 | Production | Industrial | 2 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 7.3 | 130 | SOP8, MSOP8 |
| TP2311 | Production | Industrial | 1 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 8.2 | 130 | SOT23-5 |
| TP2312 | Production | Industrial | 2 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 8.2 | 130 | SOP8, MSOP8, SOT23-8 |
| TP2314 | Production | Industrial | 4 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 0.05 | 1 | 0.3 | 8.2 | 130 | SOP14, TSSOP14 |
| TP2402 | Production | Industrial | 2 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 1 | 1 | 0.3 | 7.3 | 130 | SOP8 |
| TP2404 | Production | Industrial | 4 | 2.2 | 5.5 | 5000 | 20 | 25 | Yes | Yes | 130 | 1 | 1 | 0.3 | 7.3 | 130 | SOP14, TSSOP14 |
| TP2411 | Production | Industrial | 1 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 1 | 1 | 0.3 | 8.2 | 130 | SOT23-5 |
| TP2412 | Production | Industrial | 2 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 1 | 1 | 0.3 | 8.2 | 130 | SOP8, MSOP8, SOT23-8, TSSOP8 |
| TP2414 | Production | Industrial | 4 | 2.2 | 5.5 | 1950 | 10 | 7 | Yes | Yes | 130 | 1 | 1 | 0.3 | 8.2 | 130 | SOP14, TSSOP14 |
| TPH2501 | Production | Industrial | 1 | 2.5 | 5.5 | 10000 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOT23-5 |
| TPH2502 | Production | Industrial | 2 | 2.5 | 5.5 | 7500 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOP8, MSOP8 |
| TPH2503 | Production | Industrial | 1 | 2.5 | 5.5 | 10000 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOT23-6 |
| TPH2504 | Production | Industrial | 4 | 2.5 | 5.5 | 7500 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOP14, TSSOP14 |
| TPA6581 | Production | Industrial | 1 | 2.7 | 5.5 | 1500 | 10 | 8 | Yes | Yes | 135/120 | 2 | 0.1 | 10 | 10 | 120 | SOT23-5, SC70-5, DFN-5,0.8X0.8 |
| TPA6582 | Production | Industrial | 2 | 2.7 | 5.5 | 1500 | 10 | 8 | Yes | Yes | 135/120 | 2 | 0.1 | 10 | 10 | 120 | SOP8, MSOP8 |
| TPA6584 | Production | Industrial | 4 | 2.7 | 5.5 | 1500 | 10 | 8 | Yes | Yes | 135/120 | 2 | 0.1 | 10 | 10 | 120 | SOP14, TSSOP14 |
| TPA6551 | Preview | Industrial | 1 | 2.5 | 5.5 | / | 10 | 3 | Yes | Yes | 90/120 | 1 | 2 | 400000 | 10 | 100 | SOT23-5, SOT23-6 |
| TPA6552 | Preview | Industrial | 2 | 2.5 | 5.5 | / | 10 | 3 | Yes | Yes | 90/120 | 1 | 2 | 400000 | 10 | 100 | SOP8, MSOP8 |
| TPA6554 | Preview | Industrial | 4 | 2.5 | 5.5 | / | 10 | 3 | Yes | Yes | 90/120 | 1 | 2 | 400000 | 10 | 100 | SOP14, TSSOP14 |
| TPA5581 | Preview | Industrial | 1 | 2.7 | 5.5 | 1200 | 15 | 5 | Yes | Yes | 160 | 0.01 | 0.01 | 100 | 10 | 150 | SOT23-5, SOT23-6 |
| TPA5582 | Preview | Industrial | 2 | 2.7 | 5.5 | 1200 | 15 | 5 | Yes | Yes | 160 | 0.01 | 0.01 | 100 | 10 | 150 | SOP8, MSOP8, DFN2X2-8 |

低压高速运算放大器 (电源电压 < 10V, GBWP ≥ 50MHz) Low-Voltage High-Speed Operational Amplifiers (Supply Voltage < 10V, GBWP ≥ 50MHz)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/°C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|---------------|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------------|----------------|
| TPH2501 | Production | Industrial | 1 | 2.5 | 5.5 | 10000 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOT23-5 |
| TPH2502 | Production | Industrial | 2 | 2.5 | 5.5 | 7500 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOP8, MSOP8 |
| TPH2503 | Production | Industrial | 1 | 2.5 | 5.5 | 10000 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOT23-6 |
| TPH2504 | Production | Industrial | 4 | 2.5 | 5.5 | 7500 | 50 | 200 | Yes | Yes | 160 | 2 | 10 | 3 | 6.5 | 110 | SOP14, TSSOP14 |

高压通用运算放大器 (电源电压 >10V, Vos>0.5mV) High-Voltage General Operational Amplifiers (Supply Voltage >10V, Vos>0.5mV)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/°C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|-----------------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|----------------|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------------|---|
| TP2261 | Production | Industrial | 1 | 3 | 36 | 1500 | 3.5 | 15 | to V- only | Yes | 32 | 2 | 2 | 25 | 30 | 120 | SOP8, SOT23-5 |
| TP2262 | Production | Industrial Automotive | 2 | 3 | 36 | 1000 | 3.5 | 15 | to V- only | Yes | 32 | 2 | 2 | 25 | 30 | 120 | SOP8, MSOP8, TSSOP8, DFN2X2-8, DFN3X3-8 |
| TP2264 | Production | Industrial | 4 | 3 | 36 | 1000 | 3.5 | 15 | to V- only | Yes | 32 | 2 | 2 | 25 | 30 | 120 | SOP14, TSSOP14 |
| LM321A | Production | Industrial | 1 | 3 | 36 | 200 | 0.9 | 0.5 | to V- only | Yes | 30 | 3 | 7 | 60 | 70 | 110 | SOT23-5 |
| LM358A | Production | Industrial | 2 | 3 | 36 | 200 | 0.9 | 0.5 | to V- only | Yes | 30 | 3 | 7 | 60 | 70 | 110 | SOP8, MSOP8, TSSOP8, DFN1.5X1.5-8 |
| LM324A | Production | Industrial | 4 | 3 | 36 | 200 | 1 | 0.5 | to V- only | Yes | 30 | 3 | 7 | 60 | 70 | 110 | SOP14, TSSOP14 |
| LM2904A | Production | Industrial Automotive | 2 | 3 | 36 | 200 | 1 | 0.5 | to V- only | Yes | 30 | 3 | 7 | 60 | 70 | 110 | SOP8, MSOP8, TSSOP8 |
| LM2902A | Production | Industrial Automotive | 4 | 3 | 36 | 200 | 1 | 0.5 | to V- only | Yes | 30 | 3 | 7 | 60 | 70 | 110 | SOP14, TSSOP14 |
| TP2581 | Production | Industrial | 1 | 3 | 36 | 5400 | 10 | 8 | to V- only | Yes | 32 | 3 | 2 | 25 | 35 | 120 | SOT23-5 |
| TP2582 | Production | Industrial | 2 | 3 | 36 | 4000 | 10 | 8 | to V- only | Yes | 32 | 3 | 2 | 25 | 35 | 120 | SOP8, MSOP8, TSSOP8 |
| TP2584 | Production | Industrial | 4 | 3 | 36 | 4000 | 10 | 8 | to V- only | Yes | 32 | 3 | 2 | 25 | 35 | 120 | SOP14, TSSOP14 |
| TPA2641 | Production | Industrial | 1 | 3 | 36 | 550 | 1.5 | 0.5 | to V- only | No, to V- only | 50 | 2 | 5 | 15000 | 50 | 130 | SOT23-5 |
| TPA2642 | Production | Industrial | 2 | 3 | 36 | 550 | 1.5 | 0.5 | to V- only | No, to V- only | 50 | 2 | 5 | 15000 | 50 | 130 | SOP8, MSOP8 |
| TPA2644 | Production | Industrial | 4 | 3 | 36 | 550 | 1.5 | 0.5 | to V- only | No, to V- only | 50 | 2 | 5 | 15000 | 50 | 130 | SOP14, TSSOP14 |
| TPA2681 | Production | Industrial | 1 | 8 | 36 | 8000 | 20 | 10 | No | No | 100/60 | 3 | 2 | 100000 | 10 | 105 | SOT23-5 |
| TPA2682 | Production | Industrial | 2 | 8 | 36 | 8000 | 20 | 10 | No | No | 100/60 | 3 | 2 | 100000 | 10 | 105 | SOP8, MSOP8, TSSOP8 |

Contact 3PEAK Sales For More Products Information and Samples

高压高精度运算放大器 (电源电压大于 10V, Vos<0.5mV) High-Voltage High-Precision Operational Amplifiers (Supply Voltage >10V, Vos<0.5mV)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/°C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|------------|-----------------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|---------------|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------------|---------------|
| TP1241 | Production | Industrial | 1 | 4.5 | 36 | 150(typ) | 1 | 0.7 | to V- only | Yes | 80 | 0.25 | 2 | 25 | 45 | 120 | SOT23-5 |
| TP1242 | Production | Industrial | 2 | 4.5 | 36 | 1500 | 1 | 0.7 | to V- only | Yes | 80 | 0.25 | 2 | 25 | 45 | 120 | SOP8、MSOP8 |
| TP1281 | Production | Industrial | 1 | 4.5 | 36 | 2000 | 7 | 20 | to V- only | Yes | 32 | 0.1 | 1 | 25 | 25 | 130 | SOP8、SOT23-5 |
| TP1282 | Production | Industrial | 2 | 4.5 | 36 | 1600 | 7 | 20 | to V- only | Yes | 32 | 0.1 | 1 | 25 | 25 | 130 | SOP8、MSOP8 |
| TP1284 | Production | Industrial | 4 | 4.5 | 36 | 1600 | 7 | 20 | to V- only | Yes | 32 | 0.1 | 1 | 25 | 25 | 130 | SOP14、TSSOP14 |
| TP17 | Production | Industrial | 1 | 3 | 36 | 2000 | 6 | 20 | to V- only | Yes | 32 | 0.1 | 1 | 25 | 25 | 130 | SOP8 |
| TP07A | Production | Industrial | 1 | 3 | 36 | 1500 | 1 | 0.7 | to V- only | Yes | 80 | 0.15 | 2 | 25 | 45 | 120 | SOP8 |
| TP27 | Production | Industrial | 1 | 4.5 | 36 | 1600 | 6 | 5 | to V- only | Yes | 95 | 0.05 | 0.01 | 100 | 8 | 140 | SOP8 |
| TPA1861 | Production | Industrial | 1 | 4.5 | 36 | 1600 | 6 | 5 | to V- only | Yes | 95 | 0.03 | 0.01 | 100 | 8 | 140 | SOP8、SOT23-5 |
| TPA1862 | Production | Industrial | 2 | 4.5 | 36 | 1600 | 6 | 5 | to V- only | Yes | 95 | 0.03 | 0.01 | 100 | 8 | 140 | SOP8、MSOP8 |
| TPA1864 | Production | Industrial | 4 | 4.5 | 36 | 1600 | 6 | 5 | to V- only | Yes | 95 | 0.03 | 0.01 | 100 | 8 | 140 | SOP14、TSSOP14 |
| TPA1881 | Production | Industrial | 1 | 4.5 | 36 | 2500 | 12 | 12 | to V- only | Yes | 95 | 0.015 | 0.05 | 100 | 6 | 155 | SOP8、SOT23-5 |
| TPA1882 | Production | Industrial Automotive | 2 | 4.5 | 36 | 2500 | 12 | 12 | to V- only | Yes | 95 | 0.015 | 0.05 | 100 | 6 | 155 | SOP8、MSOP8 |

低偏置电流运算放大器 (Ib<1pA) Low Bias Current Operational Amplifiers (Ib<1pA)

| Part Number | Status | Rating | CH | Supply Voltage (V)(Min) | Supply Voltage (V)(Max) | Iq per channel (uA)(Max) | GBWP (MHz)(Typ.) | Slew Rate (V/μs)(Typ.) | Rail-Rail In | Rail-Rail Out | Sink/Source Current (mA)(Typ.) | VOS (mV)(Max) | VOS TC (μV/°C)(Typ.) | IB (pA)(Typ.) | eN@1kHz (nV/√Hz)(Typ.) | Open Loop Gain (dB)(Typ.) | Package |
|-------------|---------|------------|----|-------------------------|-------------------------|--------------------------|------------------|------------------------|--------------|---------------|--------------------------------|---------------|----------------------|---------------|------------------------|---------------------------|---------|
| TPA3530 | Preview | Industrial | 1 | 4.5 | 16 | 900(typ) | 3 | 1.4 | to V- only | Yes | 30 | 0.25 | 2 | 0.001 | 16 | 140 | SOP8 |

Contact 3PEAK Sales For More Products Information and Samples

特殊放大器

SPECIAL AMPLIFIERS

仪表放大器

Instrumentation Amplifiers

| Part Number | Status | Rating | CH | CH | VDD (V) | IQ (mA, Max) | BW (MHz) | Slew Rate (V/ μ s) | I _b (nA, Typ.) | VOS (μ V, Max) | VOS TC (μ V/ $^{\circ}$ C, Typ.) | CMRR (db, Min) | Gain (V/V) | Gain Error (% Max) | Package |
|-------------|------------|------------|----|----|---------|--------------|----------|------------------------|---------------------------|---------------------|---------------------------------------|----------------|------------|--------------------|---------------------|
| TPA1286 | Production | Industrial | 1 | 1 | 4.5~36 | 4.5 | 1.6 | 5 | 0.3 | 0.05 | 0.1 | 80 at G=1 | 1~1000 | 0.05 at G=1 | SOP8、MSOP8、DFN3X3-8 |

差动放大器

Differential Amplifiers

| Part Number | Status | Rating | CH | VDD (V) | IQ (mA, Max) | BW (MHz) | VOS (mV, Max) | VOS TC (μ V/ $^{\circ}$ C, Typ.) | Common Mode Voltage at VDD=30V (V) | CMRR (db, Min) | Gain (V/V) | Gain Error (% Max) | Package |
|-------------|------------|------------|----|---------|--------------|----------|---------------|---------------------------------------|------------------------------------|----------------|------------|--------------------|---------|
| TPA9361 | Production | Industrial | 1 | 4.5~36 | 2 | 3 | 0.3 | 2 | -60 ~ +57 | 80 | 1 | 0.05 | SOP8 |
| TPA9151 | Production | Industrial | 1 | 4.5~36 | 3 | 0.5 | 1 | 2 | -275 ~ +275 | 80 | 1 | 0.03 | SOP8 |

对数放大器

Logarithmic Amplifiers

| Part Number | Status | Rating | CH | VDD (V) | IQ (mA, Max) | Input Current Range | Logarithmic Slope (mV/dec, Typ.) | Law Conformance Error (dB, Max.) | Package |
|-------------|------------|------------|----|---------|--------------|---------------------|----------------------------------|----------------------------------|-------------------|
| TPA8304 | Production | Industrial | 1 | 4.5~5.5 | 10 | 1nA to 12mA | 200 | 0.25 at Input>10nA | TSSOP14、QFN3X3-16 |

带电压基准放大器

Amplifiers with Voltage Reference

| Part Number | Status | Rating | CH | VDD (V) | IQ (μ A, Typ.) | GBWP (MHz) | Slew Rate (V/ μ s) | I _b (pA, Typ.) | VOS (mV, max) | VOS TC (μ V/ $^{\circ}$ C, Typ.) | Reference Output (V, Typ.) | Reference Accuracy (% Max) | Package |
|-------------|------------|------------|----|---------|---------------------|------------|------------------------|---------------------------|---------------|---------------------------------------|----------------------------|----------------------------|---------|
| TPA7252 | Production | Industrial | 2 | 3~36 | 220 | 1 | 0.5 | 50 | 4 | 2 | 2.5 | 1%, 0.4% | SOP-8 |

Contact 3PEAK Sales For More Products Information and Samples

电流信号检测放大器 Current Sensing Amplifiers

| Part Number | Status | Rating | CH | VDD (V) | Common Mode Voltage (V) | IQ (μ A, Typ.) | Ib (μ A, Typ.) | VOS (μ V, max) | Slew Rate (V/ μ s) | VOS TC (μ V/ $^{\circ}$ C, Max) | Gain Drift (ppm/ $^{\circ}$ C, Max) | Output Type | Internal Comparator | Package |
|-------------|------------|------------|----|-----------------------------|-------------------------|---------------------|---------------------|---------------------|------------------------|--------------------------------------|-------------------------------------|-------------|---------------------|--------------|
| TP181 | Production | Industrial | 1 | 2.7~30 | -0.3~36 | 120 | 35 | 100 | 0.6 | 0.5 | 10 | Analog | N/A | SOT363 |
| TP182 | Production | Industrial | 1 | 2.7~30 | -0.3~36 | 120 | 35 | 50 | 0.6 | 0.5 | 10 | Analog | N/A | SOT363 |
| TPA183 | Preview | Industrial | 1 | 2.7~30, supply from IN+ pin | 2.7~30 | 220 | 35 | 250 | 0.6 | 0.5 | 10 | Analog | N/A | SOT23-5 |
| TPA191 | Preview | Industrial | 1 | 2.7~36 | -0.3~36 | 75 | 28 | 50 | 0.4 | 0.5 | 10 | Analog | N/A | SOT363 |
| TPA1285 | Production | Industrial | 2 | 3.0~5.5 | 3.0~76 | 750 | 65 | 100 | 0.6 | 0.5 | 10 | Analog | N/A | MSOP8, WLCSP |
| TPA1295 | Production | Industrial | 1 | 3.0~18 | 0~70 | 1000 | 100 | 100 | 20 | 0.5 | 5 | Analog | N/A | SOP8 |
| TPA2295C | Production | Industrial | 1 | 3.0~18 | 0~70 | 1000 | 100 | 500 | 20 | 0.5 | 5 | Analog | 1ch | MSOP8 |
| TPA2296 | Production | Industrial | 1 | 3.0~18 | 0~70 | 1000 | 100 | 500 | 20 | 0.5 | 5 | Analog | N/A | SOT23-5 |

音频线路驱动器 Audio Line Drivers

| Part Number | Description | Package |
|-------------|---|------------|
| TPF632A | 2.7V~5.5V Power Supply, Differential Input, 3V _{RMS} or 2V _{RMS} Output | TSSOP-14 |
| TPF632C | 2.7V~5.5V Power Supply, Differential Input, 3V _{RMS} or 2V _{RMS} Output | TSSOP-14 |
| TPF605A | 2.7V~5.5V Power Supply, Single End Input, 3V _{RMS} or 2V _{RMS} Output | MSOP-10-EP |
| TPF605C | 2.7V~5.5V Power Supply, Single End Input, 3V _{RMS} or 2V _{RMS} Output | MSOP-10-EP |
| TPF607A | 2.7V~5.5V Power Supply, Single End Input, 3V _{RMS} or 2V _{RMS} Output, None UVP | MSOP-10 |

Contact 3PEAK Sales For More Products Information and Samples

视频滤波驱动器 Video Filter Drivers

| Part Number | Status | Rating | Resolution | Channel | VDD (V) | Quiescent Current @3.3V(mA) | Voltage Gain (dB) | Stop-Band Rejection @27MHz(dB) | Diff. Gain (%) | Diff. Phase (Deg) | THD (%) | Package |
|-------------|------------|------------|--------------------|--------------|----------|-----------------------------|-------------------|--------------------------------|----------------|-------------------|---------|-----------------|
| TPF110 | Production | Industrial | 480i, 576i | 1-SD | 2.85-5.5 | 3.9 | 6 | 51.2 | 0.4 | 0.7 | 0.1 | SOT23-6, SOT363 |
| TPF111 | Production | Industrial | 480i, 576i | 1-SD | 3.0-5.5 | 3.8 | 6 | 51.2 | 0.4 | 0.7 | 0.1 | SOT353 |
| TPF113 | Production | Industrial | 480i, 576i | 3-SD | 3.0-5.5 | 11.6 | 6 | 51.2 | 0.4 | 0.7 | 0.1 | SOP8 |
| TPF114 | Production | Industrial | 480i, 576i | 4-SD | 3.0-5.5 | 16 | 6 | 51.2 | 0.4 | 0.7 | 0.1 | MSOP10, TSSOP14 |
| TPF116 | Production | Industrial | 480i, 576i | 6-SD | 3.0-5.5 | 23.2 | 6 | 51.2 | 0.4 | 0.7 | 0.1 | TSSOP14 |
| TPF130 | Production | Industrial | 720p, 1080i | 1-HD | 3.0-5.5 | 6 | 6 | 31.1dB@74.25MHz | 0.2 | 0.4 | 0.3 | SOT23-6 |
| TPF131 | Production | Industrial | 720p, 1080i | 1-HD | 3.0-5.5 | 6 | 6 | 31.1dB@74.25MHz | 0.2 | 0.4 | 0.3 | SOT23-6 |
| TPF133A | Production | Industrial | 720p, 1080i | 3-HD | 3.0-5.5 | 18 | 6 | 31.1dB@74.25MHz | 0.2 | 0.4 | 0.3 | SOP8 |
| TPF140 | Production | Industrial | 1080p, 1080i, 720p | 1-FHD | 3.0-5.5 | 11.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | SOT23-6 |
| TPF141N | Production | Industrial | 1080p, 1080i, 720p | 1-FHD | 3.0-5.5 | 11.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | SOT23-6 |
| TPF141 | Production | Industrial | 1080p, 1080i, 720p | 1-FHD | 3.0-5.5 | 11.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | SOT23-6 |
| TPF142 | Production | Industrial | 1080p, 1080i, 720p | 1-SD & 1-FHD | 3.0-5.5 | 14.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | MSOP8, TSSOP14 |
| TPF143 | Production | Industrial | 1080p, 1080i, 720p | 3-FHD | 3.0-5.5 | 34.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | SOP8 |
| TPF144 | Production | Industrial | 1080p, 1080i, 720p | 1-SD & 3-FHD | 3.0-5.5 | 45 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | MSOP8, TSSOP14 |
| TPF153 | Production | Industrial | 1080p, 1080i | 3-CH | 3.0-5.5 | 33 | 6 | / | 0.4 | 0.3 | 0.2 | SOP8 |
| TPF147 | Production | Industrial | 1080P/60,1080P/30 | 1-FHD or HD | 3.0-5.5 | 11.5 | 6 | 32dB@74MHz 34dB@148MHz | 0.2/0.4 | 0.4/0.7 | 0.15 | SOT23-6 |
| TPF1341 | Production | Industrial | 1080P | 1-HD | 3.0-5.5 | 11 | 6 | 31.1dB@74.25MHz | 0.2 | 0.4 | 0.3 | SOP8, MSOP8 |
| TPF1441 | Production | Industrial | 1080P/60 | 1-HD | 3.0-5.5 | 11.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | SOP8, MSOP8 |
| TPF1441C | Production | Industrial | 1080P/60 | 1-HD | 3.0-5.5 | 11.5 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | SOP8, MSOP8 |
| TPF1441NC | Production | Industrial | 1080P/60 | 1-HD | 3.0-5.5 | 10 | 6 | 31.2dB @148MHz | 0.1 | 0.3 | 0.6 | MSOP8 |

Contact 3PEAK Sales For More Products Information and Samples

传感器接口

SENSOR INTERFACE

霍尔传感器接口

Hall Sensor Interface

| Part Number | Status | Rating | Features | VDD (V) | Interface Type | Temperature Range (°C) | Package |
|-------------|------------|------------|----------------------------------|---------|----------------|------------------------|-----------|
| TPAFE411 | Production | Industrial | AFE for Magnetic Current Sensing | 2.7-5.5 | Analog Voltage | -40 to +125 | QFN4X4-20 |

光学传感器接口

Optical Sensor Interface

| Part Number | Status | Rating | Features | Supply Voltage Range (V) | Iq (maximum)(μ A) | Temperature Range (°C) | Package |
|-------------|------------|------------|--|--------------------------|------------------------|------------------------|---------|
| TPA8801B | Production | Industrial | High Sensitivity Current Input Interface | 2.1-5.5 | 700 | -40 to +125 | TSSOP14 |

模拟开关

ANALOG SWITCH

高压开关

High Voltage Switch

| Part Number | Status | Rating | CH | Switch Config | VDD (V) | VEE (V) | Input Range | BW (MHz) | I _Q (Typ.)(1 Channel)(μ A) | R _{on} (Ω) | Leakage Current (nA) | V _{IH} (Min)(V) | V _{IL} (Max)(V) | t _{ON} (ns) | t _{OFF} (ns) | Latch up (mA) | Package |
|-------------|------------|------------|----|---------------|---------|---------|-------------|----------|--|------------------------------|----------------------|--------------------------|--------------------------|----------------------|-----------------------|---------------|------------------------|
| TPW4051 | Production | Industrial | 1 | 8:01 | 3~12 | -6~0 | VEE to VDD | 200 | 8 | 120 | 100 | 2 | 0.8 | 60 | 50 | 150 | SOP16、TSSOP16、QFN3X316 |
| TPW4052 | Production | Industrial | 2 | 4:01 | 3~12 | -6~0 | VEE to VDD | 200 | 8 | 120 | 100 | 2 | 0.8 | 60 | 50 | 150 | SOP16、QFN3X3-16 |
| TPW4053 | Production | Industrial | 3 | 2:01 | 3~12 | -6~0 | VEE to VDD | 200 | 8 | 120 | 100 | 2 | 0.8 | 60 | 50 | 150 | SOP16、QFN3X3-16 |
| TPW4054 | Production | Industrial | 1 | 4:01 | 3~12 | N/A | 0V to VDD | 200 | 8 | 120 | 100 | 2 | 0.8 | 60 | 50 | 150 | MSOP10 |
| TPW4066 | Production | Industrial | 4 | 1:01 | 3~12 | N/A | 0V to VDD | 200 | 8 | 120 | 100 | 2 | 0.8 | 60 | 50 | 150 | SOP14、TSSOP14 |
| TPW4425 | Production | Industrial | 4 | 2:01 | 3~16 | -8~0 | VEE to VDD | 200 | 1 | 10 | 100 | 1.5 | 0.5 | 320 | 130 | 150 | TSSOP20、QFN4X4-20 |

低压开关

Low Voltage Switch

| Part Number | Status | Rating | CH | Switch Config | VDD (V) | VEE (V) | Input Range | BW (MHz) | I _Q (Typ.)(1 Channel)(μ A) | R _{on} (Ω) | Leakage Current (nA) | V _{IH} (Min)(V) | V _{IL} (Max)(V) | t _{ON} (ns) | t _{OFF} (ns) | Latch up (mA) | Package |
|-------------|------------|------------|----|---------------|----------|---------|--------------|----------|--|------------------------------|----------------------|--------------------------|--------------------------|----------------------|-----------------------|---------------|------------------|
| TPW3111 | Production | Industrial | 1 | 1:01 | 1.65~5.5 | N/A | 0V to VDD | 100 | 0.3 | 1.15 | 10 | 2.4 | 0.8 | 40 | 15 | 600 | SOT23-5 |
| TPW3115 | Production | Industrial | 1 | 1:01 | 1.65~5.5 | N/A | 0V to VDD | 250 | 0.3 | 5 | 10 | 1.5 | 0.7 | 100 | 100 | 600 | SOT23-5、SOT353 |
| TPW4157 | Production | Industrial | 1 | 2:01 | 1.65~5.5 | N/A | 0V to VDD | 100 | 0.3 | 1.15 | 10 | 2.4 | 0.8 | 40 | 15 | 800 | SOT363 |
| TPW3157A | Production | Industrial | 1 | 2:01 | 1.65~5.5 | N/A | 0V to VDD | 100 | 0.3 | 2 | 10 | 2.4 | 0.8 | 40 | 15 | 800 | SOT363 |
| TPW3125 | Production | Industrial | 1 | 2:01 | 1.65~5.5 | N/A | 0V to VDD | 250 | 0.3 | 5 | 10 | 1.42 | 0.7 | 100 | 100 | 600 | SOT23-5、SOT363 |
| TPW3221 | Production | Industrial | 2 | 2:01 | 1.65~5.5 | N/A | 0V to VDD | 100 | 0.3 | 1.15 | 10 | 2.4 | 0.8 | 40 | 15 | 800 | MSOP10、DFN3X3-10 |
| TPW3223 | Production | Industrial | 2 | 2:01 | 1.65~5.5 | N/A | 0V to VDD | 100 | 0.3 | 1.15 | 10 | 2.4 | 0.8 | 40 | 15 | 800 | QFN1.4X1.8-10 |
| TPW1221 | Production | Industrial | 2 | 2:01 | 1.65~5.5 | N/A | -2.5V to VDD | 60 | 0.3 | 0.9 | 100 | 1.6 | 0.6 | 100 | 60 | 300 | QFN1.4X1.8-10 |

比较器

COMPARATORS

| Part Number | Status | Rating | CH | VDD (V) | IQ (Typ.)(per CH) | IQ (Max.)(per CH) | tPD+ | tPD- | VOS (max)(mV) | Hyst. (mV) | Output Type | Package |
|-------------|------------|-----------------------|----|----------|-------------------|-------------------|------------|------------|---------------|------------|-------------|----------------------|
| TP1981 | Production | Industrial | 1 | 2.5~5.5 | 4 mA | / | 3.5 ns | 3.5 ns | 15 | 5 | Push-Pull | SOT363 |
| TP1961 | Production | Industrial | 1 | 2.7~5.5 | 2.4 mA | / | 7 ns | 7 ns | 6 | 7.5 | Push-Pull | SOT23-5 |
| TP1962 | Production | Industrial | 2 | 2.7~5.5 | 2.4 mA | / | 7 ns | 7 ns | 3 | 7.5 | Push-Pull | DFN2X2-8 |
| TPA2031 | Preview | Automotive | 1 | 2.7~5.5 | 350 μ A | 500 μ A | 42 ns | 45 ns | 6 | / | Push-Pull | SOT23-5 |
| TP1941 | Production | Industrial | 1 | 1.8~5.5 | 46 μ A | 58 μ A | 68 ns | 72 ns | 3 | 6 | Push-Pull | SOT23-5、SOT353 |
| TP1942 | Production | Industrial | 2 | 1.8~5.5 | 46 μ A | 58 μ A | 68 ns | 72 ns | 3 | 6 | Push-Pull | SOP8 |
| LMV393TP | Production | Industrial | 2 | 1.8~5.5 | 40 μ A | 70 μ A | / | 120ns | 3.5 | 6 | Open Drain | SOP8、MSOP8 |
| LMV331TP | Production | Industrial | 1 | 1.8~5.5 | 40 μ A | 70 μ A | / | 120ns | 3.5 | 6 | Open Drain | SOT23-5、SOT353 |
| TP2021 | Production | Industrial | 1 | 1.8~5.5 | 390 nA | 440 nA | 13 μ s | 14 μ s | 3 | 4 | Push-Pull | SOT23-6、SOT363 |
| TP2011 | Production | Industrial | 1 | 1.6~5.5 | 200 nA | 250 nA | 13 μ s | 14 μ s | 3 | 4 | Push-Pull | SOT23-5 |
| TP2012 | Production | Industrial | 2 | 1.65~5.5 | 200 nA | 250 nA | 13 μ s | 14 μ s | 3 | 4 | Push-Pull | SOP8、MSOP8 |
| LM393A | Production | Industrial Commercial | 2 | 2.5~36 | 0.15 mA | 0.3 mA | / | 2 μ s | 6 | / | Open Drain | SOP8、TSSOP8、DFN2X2-8 |
| LM339A | Production | Industrial | 4 | 2.5~36 | 0.15 mA | 0.3 mA | / | 2 μ s | 6 | / | Open Drain | SOP14、TSSOP14 |
| LM331A | Production | Industrial | 1 | 2.5~36 | 0.15 mA | 0.3 mA | / | 2 μ s | 6 | / | Open Drain | SOT23-5 |
| LM2903A | Production | Industrial Automotive | 2 | 2.5~36 | 0.15 mA | 0.3 mA | / | 2 μ s | 6 | / | Open Drain | SOP8、MSOP8 |
| LM2901A | Production | Industrial Automotive | 4 | 2.5~36 | 0.15 mA | 0.3 mA | / | 2 μ s | 6 | / | Open Drain | SOP14 |

接口 INTERFACE

CAN CAN

| Part Number | Status | Rating | Feature | VCC | IEC-61000-4-2 Contact (kV) | Protocol | Max Data Rate (Mbps) | Bus Fault Protection Voltage | Package |
|-------------|------------|------------|----------------------------------|---------|----------------------------|-------------|----------------------|------------------------------|--------------------|
| TPT1255 | Production | Industrial | Silent | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -42V to +42V | SOP8, DFN3X3-8 |
| TPT1256 | Production | Industrial | Silent, VIO | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -42V to +42V | SOP8, DFN3X3-8 |
| TPT1051H | Sample | Industrial | Silent | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1051HV | Sample | Industrial | Silent, VIO | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1042 | Production | Industrial | Standby | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1042V | Production | Industrial | Standby, VIO | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1043 | Production | Industrial | Silent, Standby, Sleep, INH, VIO | 4.5-5.5 | 12 | CAN, CAN FD | 5 | -70V to +70V | SOP14, DFN4.5X3-14 |
| TPT1051Q | Sample | Automotive | Silent | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1051VQ | Sample | Automotive | Silent, VIO | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1042Q | Sample | Automotive | Standby | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1042VQ | Production | Automotive | Standby, VIO | 4.5-5.5 | 15 | CAN, CAN FD | 5 | -70V to +70V | SOP8, DFN3X3-8 |
| TPT1043Q | Sample | Automotive | Silent, Standby, Sleep, INH, VIO | 4.5-5.5 | 12 | CAN, CAN FD | 5 | -70V to +70V | SOP14, DFN4.5X3-14 |
| TPT1145Q | Sample | Automotive | Partial Networking, SPI | 4.5-5.5 | 10 | CAN, CAN FD | 5 | -70V to +70V | SOP14, DFN4.5X3-14 |
| TPT1145NQ | Sample | Automotive | Partial Networking, SPI | 4.5-5.5 | 10 | CAN, CAN FD | 5 | -70V to +70V | SOP14, DFN4.5X3-14 |

MLVDS MLVDS

| Part Number | Status | Rating | Drivers Per Package | Receivers Per Package | VCC (Min)(V) | VCC (Max)(V) | Data Rate (Max)(kBPS) | ICC (Max)(mA) | ESD HBM (kV) | IEC-61000-4-2 Contact (kV) | Operating Temperature Range (°C) | Package |
|-------------|------------|------------|---------------------|-----------------------|--------------|--------------|-----------------------|---------------|--------------|----------------------------|----------------------------------|---------|
| TPT9L484 | Production | Industrial | 0 | 4 | 3 | 3.6 | 400000 | 20 | 8 | Yes | -40 to +85 | TSSOP16 |
| TPT9H111 | Production | Industrial | 1 | 1 | 3 | 3.6 | 100000 | 24 | 8 | Yes | -40 to +85 | SOP8 |
| TPT9H221 | Production | Industrial | 1 | 1 | 3 | 3.6 | 200000 | 24 | 8 | Yes | -40 to +85 | SOP8 |

Contact 3PEAK Sales For More Products Information and Samples

I2C Level Shift

I2C Level Shift

| Part Number | Status | Rating | Drivers Per Package | Receivers Per Package | VCC (Min)(V) | VCC (Max)(V) | Data Rate (Max)(kBPS) | ICC (Max)(mA) | ESD HBM (kV) | IEC-61000-4-2 Contact (kV) | Operating Temperature Range (°C) | Package |
|-------------|------------|------------|---------------------|-----------------------|--------------|--------------|-----------------------|---------------|--------------|----------------------------|----------------------------------|---------------------------|
| TPT29306 | Production | Industrial | 1 | 1 | 1.2 | 5.5 | 1000 | 1 | 4 | / | -40 to +85 | MSOP8、DFN1.4X1-8、DFN3X4-8 |
| TPT29617A | Production | Industrial | 1 | 1 | 1.2 | 5.5 | 1000 | 15 | 7 | / | -40 to +125 | SOP8、MSOP8 |
| TPT29511B | Production | Industrial | 1 | 1 | 2.35 | 5.5 | 1000 | 6 | 7 | / | -40 to +125 | SOP8、MSOP8 |
| TPT24857 | Production | Industrial | 7 | 7 | 1.1 | 3.6 | 208000 | 7 | 8 | / | -40 to +85 | WLCSP |

IO Expander

IO Expander

| Part Number | Status | Rating | Drivers Per Package | Receivers Per Package | VCC (Min)(V) | VCC (Max)(V) | Data Rate (Max)(kBPS) | ICC (Max)(mA) | ESD HBM (kV) | IEC-61000-4-2 Contact (kV) | Operating Temperature Range (°C) | Package |
|-------------|------------|------------|---------------------|-----------------------|--------------|--------------|-----------------------|---------------|--------------|----------------------------|----------------------------------|-------------------|
| TPT29516 | Production | Industrial | 2 | 16 | 2.5 | 5.5 | 400 | 0.03 | 4 | / | -40 to +85 | TSSOP24、QFN4X4-24 |
| TPT29545 | Production | Industrial | 1 | 4 | 2.5 | 5.5 | 400 | 0.03 | 3.5 | / | -40 to +85 | TSSOP20 |
| TPT29545A | Production | Industrial | 1 | 4 | 2.5 | 5.5 | 400 | 0.03 | 3.5 | / | -40 to +85 | TSSOP20 |
| TPT29546A | Preview | Industrial | 1 | 4 | 2.5 | 5.5 | 400 | 0.03 | 3.5 | / | -40 to +85 | TSSOP20 |
| TPT29548 | Production | Industrial | 1 | 8 | 2.5 | 5.5 | 400 | 0.03 | 3.5 | / | -40 to +85 | TSSOP24、QFN4X4-24 |
| TPT29548A | Production | Industrial | 1 | 8 | 2.5 | 5.5 | 400 | 0.03 | 3.5 | / | -40 to +85 | TSSOP24、QFN4X4-24 |
| TPT29555 | Production | Industrial | 2 | 16 | 1.65 | 5.5 | 400 | 0.03 | 4 | / | -40 to +85 | TSSOP24、QFN4X4-24 |
| TPT29555A | Sample | Industrial | 2 | 16 | 1.65 | 5.5 | 400 | 0.03 | 4 | / | -40 to +85 | TSSOP24、QFN4X4-24 |
| TPT29539Q | Sample | Automotive | 2 | 16 | 1.65 | 5.5 | 400 | 0.03 | 4 | / | -40 to +85 | TSSOP24 |

Contact 3PEAK Sales For More Products Information and Samples

RS485

RS485

| Part Number | Status | Rating | Duplex | Drivers Per Package | Receivers Per Package | VCC (Min)(V) | VCC (Max)(V) | Data Rate (Max)(KBPS) | ICC (Max)(mA) | ESD HBM (kV) | IEC-61000-4-2 Contact (kV) | Operating Temperature Range (°C) | Package |
|-------------|------------|------------|--------|---------------------|-----------------------|--------------|--------------|-----------------------|---------------|--------------|----------------------------|----------------------------------|---------------------|
| TPT480 | Production | Industrial | Full | 1 | 1 | 3 | 5.5 | 20000 | 2.5 | 20 | 15 | -40 to +125 | SOP8、DFN3X3-8 |
| TPT481 | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 20000 | 2.7 | 18 | 15 | -40 to +125 | SOP8、MSOP8、DFN3X3-8 |
| TPT482 | Production | Industrial | Full | 1 | 1 | 3 | 5.5 | 20000 | 2.5 | 20 | 15 | -40 to +125 | SOP14 |
| TPT485E | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 500 | 0.8 | 18 | 12 | -40 to +125 | SOP8 |
| TPT485N | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 500 | 0.95 | 18 | 12 | -40 to +125 | SOP8 |
| TPT486 | Production | Industrial | Full | 1 | 1 | 3 | 5.5 | 500 | 2.5 | 20 | 15 | -40 to +125 | SOP14 |
| TPT487 | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 500 | 0.75 | 18 | 15 | -40 to +125 | SOP8、MSOP8、DFN3X3-8 |
| TPT488 | Production | Industrial | Full | 1 | 1 | 3 | 5.5 | 500 | 2.5 | 20 | 15 | -40 to +125 | SOP8、DFN3X3-8 |
| TPT4089 | Preview | Industrial | Half | 1 | 1 | 3 | 5.5 | 500 or 20,000 | 2.5 | 18 | 15 | -40 to +125 | SOP14 |
| TPT4181 | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 500 or 20,000 | 2.2 | 15 | 15 | -40 to +125 | DFN3X3-10 |
| TPT75176A | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 5000 | 5 | 12 | Yes | -40 to +125 | SOP8、MSOP8、DFN3X3-8 |
| TPT75176B | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 10000 | 5 | 12 | Yes | -40 to +125 | SOP8、MSOP8、DFN3X3-8 |
| TPT75176H | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 10000 | 2.2 | 15 | 15 | -40 to +125 | SOP8、MSOP8、DFN3X3-8 |
| TP8485E | Production | Industrial | Half | 1 | 1 | 3 | 5.5 | 250 | 0.93 | 18 | Yes | -40 to +125 | SOP8、MSOP8 |

RS232

RS232

| Part Number | Status | Rating | Drivers Per Package | Receivers Per Package | VCC (Min)(V) | VCC (Max)(V) | Data Rate (Max)(KBPS) | ICC (Max)(mA) | ESD HBM (kV) | IEC-61000-4-2 Contact (kV) | Operating Temperature Range (°C) | Package |
|-------------|------------|------------|---------------------|-----------------------|--------------|--------------|-----------------------|---------------|--------------|----------------------------|----------------------------------|----------------------|
| TPT3232E | Production | Industrial | 2 | 2 | 3 | 5.5 | 250 | 15 | 8 | 12 | -40 to +125 | SOP16、SSOP16、TSSOP16 |
| TPT3122EH | Production | Industrial | 2 | 2 | 1.8 | 5.5 | 1000 | 15 | 8 | 12 | -40 to +125 | QFN4X4-24 |

Contact 3PEAK Sales For More Products Information and Samples

隔离器件 ISOLATION

数字隔离器 Digital Isolator

| Part Number | Status | Rating | Number of Channels | Forward/Reverse Channels | Isolation Rating (V rms) | Surge Voltage Capability (Vpk) | CMTI (kV/μs)(Static) | CMTI (kV/μs)(Dynamic) | Max Data Rate (Mbps) | Default Output | Package |
|-------------|------------|------------|--------------------|--------------------------|--------------------------|--------------------------------|----------------------|-----------------------|----------------------|----------------|----------------------|
| TPT7710 | Production | Industrial | 1 | 1 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP8、WSOP8、WSOP16 |
| TPT7720 | Production | Industrial | 2 | 2 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP8、WSOP8、WSOP16 |
| TPT7721 | Production | Industrial | 2 | 2 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP8、WSOP8、WSOP16 |
| TPT7722 | Preview | Industrial | 2 | 2 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7730 | Production | Industrial | 3 | 3 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7731 | Production | Industrial | 3 | 3 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7740 | Production | Industrial | 4 | 4 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7741 | Production | Industrial | 4 | 4 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7742 | Production | Industrial | 4 | 4 / 2 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7760 | Production | Industrial | 6 | 6 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7761 | Production | Industrial | 6 | 6 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7762 | Production | Industrial | 6 | 6 / 2 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7763 | Production | Industrial | 6 | 6 / 3 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7820 | Preview | Industrial | 2 | 2 / 0 | 5700 | 12800 | 200 | 150 | 150 | High / Low | WSOP8、WSOP16、WWSOP16 |
| TPT7821 | Preview | Industrial | 2 | 2 / 1 | 5700 | 12800 | 200 | 150 | 150 | High / Low | WSOP8、WSOP16、WWSOP16 |
| TPT7822 | Preview | Industrial | 2 | 2 / 0 | 5700 | 12800 | 200 | 150 | 150 | High / Low | WSOP8、WSOP16、WWSOP16 |
| TPT7840 | Preview | Industrial | 4 | 4 / 0 | 5700 | 12800 | 200 | 150 | 150 | High / Low | WSOP16、WWSOP16 |
| TPT7841 | Preview | Industrial | 4 | 4 / 1 | 5700 | 12800 | 200 | 150 | 150 | High / Low | WSOP16、WWSOP16 |
| TPT7842 | Preview | Industrial | 4 | 4 / 2 | 5700 | 12800 | 200 | 150 | 150 | High / Low | WSOP16、WWSOP16 |
| TPT7720Q | Sample | Automotive | 2 | 2 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP8、WSOP8、WSOP16 |
| TPT7721Q | Sample | Automotive | 2 | 2 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP8、WSOP8、WSOP16 |
| TPT7722Q | Preview | Automotive | 2 | 2 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7740Q | Sample | Automotive | 4 | 4 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7741Q | Sample | Automotive | 4 | 4 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7742Q | Sample | Automotive | 4 | 4 / 2 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7760Q | Preview | Automotive | 6 | 6 / 0 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7761Q | Preview | Automotive | 6 | 6 / 1 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7762Q | Preview | Automotive | 6 | 6 / 2 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |
| TPT7763Q | Preview | Automotive | 6 | 6 / 3 | 5000 | 10000 | 200 | 150 | 150 | High / Low | SOP16、QSOP16、WSOP16 |

Contact 3PEAK Sales For More Products Information and Samples

隔离 CAN ISO-CAN

| Part Number | Status | Rating | Isolation Rating (V rms) | Surge Voltage Capability (Vpk) | CMTI (kV/μs)(Static) | CMTI (kV/μs)(Dynamic) | Max Data Rate (Mbps) | Bus Fault Protection Voltage | Package |
|-------------|------------|------------|--------------------------|--------------------------------|----------------------|-----------------------|----------------------|------------------------------|--------------|
| TPT71050 | Production | Industrial | 5000 | 10000 | 200 | 150 | 5 | 42V | WSOP8、WSOP16 |
| TPT71044 | Production | Industrial | 5000 | 10000 | 200 | 150 | 5 | 42V | WSOP8、WSOP16 |
| TPT71042 | Preview | Industrial | 5000 | 10000 | 200 | 150 | 5 | 70V | WSOP8、WSOP16 |

隔离 RS485 ISO-RS485

| Part Number | Status | Rating | Isolation Rating (V rms) | Surge Voltage Capability (Vpk) | CMTI (kV/μs)(Static) | CMTI (kV/μs)(Dynamic) | Max Data Rate (Mbps) | Mode | Package |
|-------------|------------|------------|--------------------------|--------------------------------|----------------------|-----------------------|----------------------|--------------------|--------------|
| TPT7487 | Production | Industrial | 5000 | 10000 | 200 | 150 | 0.5 | Half / Full Duplex | WSOP8、WSOP16 |
| TPT7488 | Production | Industrial | 5000 | 10000 | 200 | 150 | 0.5 | Half / Full Duplex | WSOP8、WSOP16 |
| TPT7481 | Production | Industrial | 5000 | 10000 | 200 | 150 | 0.5 | Half / Full Duplex | WSOP8、WSOP16 |
| TPT7482 | Production | Industrial | 5000 | 10000 | 200 | 150 | 0.5 | Half / Full Duplex | WSOP8、WSOP16 |

隔离 I2C ISO-I2C

| Part Number | Status | Rating | Isolation Rating (V rms) | Surge Voltage Capability (Vpk) | CMTI (kV/μs)(Static) | CMTI (kV/μs)(Dynamic) | Max Data Rate (Mbps) | Clock Direction | Package |
|-------------|--------|------------|--------------------------|--------------------------------|----------------------|-----------------------|----------------------|------------------|---------|
| TPT72616 | Sample | Industrial | 3750 | 10000 | 200 | 150 | 1 | Bidirection | SOP8 |
| TPT72617 | Sample | Industrial | 3750 | 10000 | 200 | 150 | 1 | Single Direction | SOP8 |

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隔离放大器 ISO-Amplifier

| Part Number | Status | Rating | Gain | Input Voltage Range | Insulation Rating (Vrms) | Output | Package |
|--------------|---------|------------|------|---------------------|--------------------------|--------------|------------|
| TPA8000-SOAR | Preview | Industrial | 8 | 250mV | 5000 | Differential | WSOP8、SMP8 |
| TPA8001-SOAR | Preview | Industrial | 8.2 | 250mV | 5000 | Differential | WSOP8 |
| TPA8002-SOAR | Preview | Industrial | 41 | 50mV | 5000 | Differential | WSOP8 |
| TPA8003-SOAR | Preview | Industrial | 1 | 2V | 5000 | Differential | WSOP8 |
| TPA8023-SO1R | Preview | Industrial | 1 | 2V | 3750 | Single End | SOP8 |

隔离调制器 ISO-Modulator

| Part Number | Status | Rating | Clock Source | Input voltage range | Insulation Rating (Vrms) | Output | Package |
|--------------|---------|------------|--------------|---------------------|--------------------------|--------------|---------|
| TPA8101-SOAR | Preview | Industrial | External | 250mV | 5000 | Differential | WSOP8 |
| TPA8103-SOAR | Preview | Industrial | Internal | 250mV | 5000 | Differential | WSOP8 |

数据转换器

DATA CONVERTER

高精度数模转换器 Precision DAC

| Part Number | Status | Rating | Resolution | VDD (V) | CH | INL (LSB, Max) | DNL (LSB, Max) | Offset Error (mV, Max) | IDD ($\mu\text{A}/\text{CH}$, Max)(μA) | Gain Error (% of FSR, Max) | Voltage Output Range (V) | D to A Glitch Impulse (nV-sec) | Temperature Range ($^{\circ}\text{C}$) | Package |
|-------------|------------|------------|------------|---------|----|----------------|----------------|------------------------|---|----------------------------|--------------------------|--------------------------------|--|--------------------|
| TPC2161 | Production | Industrial | 16 | 2.7~5.5 | 1 | ± 1 | ± 1 | ± 0.17 | 150 | ± 0.011 | 0~Vref | 10 | -40 to +105 | SOP14 |
| TPC2160 | Production | Industrial | 16 | 2.7~5.5 | 1 | ± 1 | ± 1 | ± 0.17 | 150 | ± 0.011 | 0~Vref | 10 | -40 to +105 | SOP8 |
| TPC112S1 | Production | Industrial | 12 | 2.7~5.5 | 1 | ± 2 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | MSOP8 |
| TPC114S1 | Production | Industrial | 14 | 2.7~5.5 | 1 | ± 8 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | MSOP8 |
| TPC116S1 | Production | Industrial | 16 | 2.7~5.5 | 1 | ± 16 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | MSOP8 |
| TPC112S4 | Production | Industrial | 12 | 2.7~5.5 | 4 | ± 2 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | TSSOP16 |
| TPC116S4 | Production | Industrial | 16 | 2.7~5.5 | 4 | ± 16 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | TSSOP16 |
| TPC112S8 | Production | Industrial | 12 | 2.7~5.5 | 8 | ± 2 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | TSSOP16, QFN4X4-16 |
| TPC116S8 | Production | Industrial | 16 | 2.7~5.5 | 8 | ± 16 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | TSSOP16, QFN4X4-16 |
| TPC112S8U | Production | Industrial | 12 | 2.7~5.5 | 8 | ± 2 | ± 1 | ± 30 | 80 | ± 0.3 | 0~Vref | 2 | -40 to +125 | TSSOP16, QFN4X4-16 |

高精度模数转换器 Precision ADC

| Part Number | Status | Rating | Resolution | VDD (V) | CH | Speed (MSPS) | INL (LSB, Max) | DNL (LSB, Max) | Offset Error (LSB, Max) | Gain Error (LSB) | Voltage Input Range (V) | IDD (mA) | Temperature Range ($^{\circ}\text{C}$) | Package |
|-------------|------------|------------|------------|-----------|----|--------------|----------------|----------------|-------------------------|------------------|-------------------------|----------|--|--------------------|
| TPAFE516 | Production | Industrial | 16 | 4.75~5.25 | 8 | 0.35 | ± 2 | ± 1 | ± 15 | ± 15 | $\pm 10, \pm 5$ | 52 | -40 to +125 | LQFP10X10-64 |
| TPC5120 | Production | Industrial | 12 | 2.7~5.5 | 16 | 1 | ± 1.5 | (-1, 1.5) | ± 4 | ± 2 | 0~2.5, 0~5 | 1.65 | -40 to +125 | TSSOP38, QFN5X5-32 |
| TPC5121 | Production | Industrial | 12 | 2.7~5.5 | 8 | 1 | ± 1.5 | (-1, 1.5) | ± 4 | ± 3 | 0~2.5, 0~5 | 1.65 | -40 to +125 | QFN4X4-24 |

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高速数模转换器 High-Speed DAC

| Part Number | Status | Rating | Resolution | Update Rate (MSPS) | CH | Datum | INL(LSB) | DNL (LSB) | SFDR (dB) | VDD (V) | Power (mW) | Package |
|-------------|------------|------------|------------|--------------------|----|-----------------|----------|-----------|-----------|---------|------------|---------|
| 3PD9708E | Production | Industrial | 8 | 125 | 1 | Internal, 1.10V | 0.25 | 0.25 | 70 | 2.7~5.5 | 175 | TSSOP28 |
| 3PD5651E | Production | Industrial | 10 | 125 | 1 | Internal, 1.10V | 0.5 | 0.25 | 79 | 2.7~5.5 | 175 | TSSOP28 |

高速模数转换器 High-Speed ADC

| Part Number | Status | Rating | Resolution | Update Rate (MSPS) | CH | Interface | VIN (V) | Datum | DNL (LSB) | SINAD (dB) | VDD (V) | Power (mW) | Package |
|-------------|------------|------------|------------|--------------------|----|-----------|---------|----------|-----------|------------|---------|------------|---------|
| 3PA9280 | Production | Industrial | 8 | 32 | 1 | Parallel | 0~2 | Internal | 0.2 | 49 | 2.7~5.5 | 85 | SSOP28 |
| 3PA1030 | Production | Industrial | 10 | 50 | 1 | Parallel | 0~2 | Internal | 0.3 | 56.5 | 2.7~5.5 | 84 | TSSOP28 |

多通道可配置模数 / 数模转换器 Multi-channel Configurable ADC/DAC Converter

| Part Number | Status | Rating | ADC Channel | ADC Resolution | DAC Channel | DAC Resolution | GPIO Channel | VREF | Temperature Sensor | Interface | VDD (V) | VDDIO (V) | Package |
|-------------|------------|------------|-------------|----------------|-------------|----------------|--------------|-------------------|--------------------|-----------|---------|-----------|-----------------|
| TPAFE0808 | Production | Industrial | 8 | 12bit | 8 | 12bit | 8 | Internal/External | Internal | SPI | 2.7~5.5 | 1.8~5.5 | WLCSP QFN3X3-16 |

数字式电流 / 功率监测器 Current/Power Monitor

| Part Number | Status | Rating | Common Mode Voltage (Max) (V) | Input Offset (+/-) (Max)(μ V) | GAIN (V/V) | Gain Error (%) | CMRR (Min)(dB) | Supply Voltage (Max)(V) | Supply Voltage (Min)(V) | Iq (Typ)(mA) | Digital Interface | Operating Temperature Range (°C) | Package |
|-------------|------------|------------|-------------------------------|------------------------------------|---------------------|----------------|----------------|-------------------------|-------------------------|--------------|-------------------|----------------------------------|---------|
| TPA620 | Production | Industrial | 0~36 | 30 | 1 | 0.4 | 120 | 5.5 | 2.7 | 1.1 | I2C SMBUS | -40 to +125 | MSOP10 |
| TPA626 | Production | Industrial | 0~36 | 50 | 0.123, 0.25, 0.5, 1 | 0.5 | 110 | 5.5 | 2.7 | 1.1 | I2C SMBUS | -40 to +125 | MSOP10 |

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线性稳压电源

VOLTAGE LINEAR REGULATOR

LVLDO LVLDO

| Part Number | Status | Rating | Input Voltage (V) | Output Voltage (V) | Accuracy (max) | Maximum Output Current (mA) | Iq (mA) | PSRR (dB) | Noise (uVRMS) | Dropout (mV) | Temperature Range (°C) | Package |
|-------------|------------|------------|-------------------|---|----------------|-----------------------------|---------|-----------|---------------|--------------|------------------------|----------------------------|
| TPL5031 | Production | Industrial | 1.5-5.5 | Adjustable (0.5-3.5) | ±2% | 300 | 0.055 | 70 | 178 | 250 | -40 to +125 | SOT23-5 |
| TPL51200 | Production | Industrial | 2.375-5.5 | Adjustable (0.5-3.5) | ±25mV | ±3000 | 0.8 | / | / | / | -40 to +125 | DFN3X3-10 |
| TPL51200-S | Production | Industrial | 2.375-5.5 | Adjustable (0.5-3.5) | ±25mV | ±3000 | 0.8 | / | / | / | -40 to +125 | DFN3X3-10 |
| TPL51206 | Production | Industrial | 3-5.5 | Adjustable (0.5-3.5) | ±40mV | ±2000 | 0.89 | / | / | / | -40 to +125 | DFN2X2-10 |
| TPL6305 | Preview | Industrial | 1.4-6.5 | Adjustable (0.5-5.2) | ±2% | 3000 | / | 70 | 4.5 | 150 | -40 to +125 | ESOP8 |
| TPL710 | Production | Industrial | 2.4-6 | Fixed (1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6) | ±3% | 200 | 0.0014 | 54 | 90 | 170 | -40 to +125 | SOT23-3, SOT23-5, DFN1X1-4 |
| TPL720 | Production | Industrial | 2.4-6 | Fixed (1.0, 1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6) | ±3% | 400 | 0.0014 | 54 | 90 | 350 | -40 to +125 | SOT23-3, STO23-5, SOT89-3 |
| TPL730 | Production | Industrial | 2.4-5.5 | Adjustable (0.8-5), Fixed (1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3) | ±2% | 300 | 0.049 | 60 | 40 | 200 | -40 to +125 | SOT23-5, SOT353, DFN1X1-4 |
| TPL740 | Production | Industrial | 2.4-5.5 | Adjustable (0.8-5), Fixed (1.2, 1.5, 1.8, 2.5, 2.7, 2.8, 2.9, 3.0, 3.3) | ±2% | 500 | 0.049 | 60 | 40 | 200 | -40 to +125 | SOT23-5, SOT23-6, SOT89-3 |
| TPL9032 | Production | Industrial | 1.75-5.5 | Fixed (0.9, 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.8, 1.9, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 4.0, 4.5, 5.0) | ±2% | 300 | 0.12 | 81.9 | 8.6 | 80 | -40 to +125 | SOT23-5, WLCSOP, DFN1X1-4 |
| TPL9052 | Production | Industrial | 1.75-5.5 | Fixed (0.9, 1.0, 1.1, 1.2, 1.3, 1.5, 1.6, 1.8, 1.9, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.5, 3.6, 3.7, 4.0, 4.5, 5.0) | ±2% | 500 | 0.12 | 82 | 8.6 | 150 | -40 to +125 | SOT23-5, DFN1X1-4 |
| TPL9052-S | Preview | Industrial | 1.75-5.5 | Fixed (1.2, 1.5, 1.8, 2.5, 2.8, 3.0, 3.3, 3.6, 4.5, 5.0) | ±2% | 500 | 0.12 | 82 | 8.6 | 150 | -40 to +125 | SOT23-5 |
| TPL9053 | Production | Industrial | 1.7-5.5 | Adjustable (0.6-5.3) | ±1.5% | 500 | 0.13 | 89 | 5.7 | 150 | -40 to +125 | DFN2X2-8 |
| TPL910 | Production | Industrial | 2.2-6.5 | Adjustable (0.8-5.2) | ±3% | 1000 | 1.5 | 65 | 24 | 500 | -40 to +125 | DFN3X3-8 |
| TPL910Q | Production | Automotive | 2.2-5.5 | Adjustable (0.8-5.2) | ±3% | 1000 | 0.13 | 78 | 4.9 | 500 | -40 to +150 | DFN3X3-8 |
| TPL910A | Preview | Industrial | 2.2-6.5 | Adjustable (0.8-5.2) | ±3% | 1000 | 0.13 | 80 | 4.5 | 500 | -40 to +125 | DFN3X3-8 |
| TPL910A-S | Production | Industrial | 2.2-6.5 | Adjustable (0.8-5.2) | ±3% | 1000 | 0.13 | 80 | 4.5 | 500 | -40 to +125 | DFN3X3-8 |
| TPL920 | Production | Industrial | 1.1-6.5 | Fixed (0.8-3.95), Adjustable (0.8-5.2) | ±1% | 2000 | 12 | 70 | 6 | 120 | -40 to +125 | QFN5X5-20 |
| TPL930 | Production | Industrial | 1.1-6.5 | Fixed (0.8-3.95), Adjustable (0.8-5.2) | ±1% | 3000 | 12 | 70 | 6 | 145 | -40 to +125 | QFN3.5X3.5-20 |
| TPL9305-S | Preview | Industrial | 1.1-6.5 | Fixed (0.5-3.65), Adjustable (0.5-5.2) | ±1% | 3000 | 12 | 70 | 6 | 145 | -40 to +125 | QFN3.5X3.5-20 |
| TPL9308-S | Preview | Industrial | 1.1-6.5 | Fixed (0.5-3.65), Adjustable (0.5-5.2) | ±1% | 3000 | 12 | 70 | 6 | 120 | -40 to +125 | DFN3.5X3.5-10 |
| TPL9208-S | Production | Industrial | 1.1-6.5 | Fixed (0.5-3.65), Adjustable (0.5-5.2) | ±1% | 2000 | 12 | 70 | 6 | 120 | -40 to +125 | DFN2.5X2.5-10, QFN5X5-20 |

Contact 3PEAK Sales For More Products Information and Samples

HVLDO HV LDO

| Part Number | Status | Rating | Input Voltage (V) | Output Voltage (V) | Accuracy (max) | Maximum Output Current (mA) | I _q (mA) | PSRR (dB) | Noise (μVRMS) | Dropout (mV) | Temperature Range (°C) | Package |
|-------------|------------|------------|-------------------|---|----------------|-----------------------------|---------------------|-----------|---------------|--------------|------------------------|-------------------------------------|
| TPL8031Q | Preview | Automotive | 3~42 | Fixed (1.8, 2.5, 3.3, 5.0) | ±1.5% | 300 | 0.002 | 70 | 80 | 400 | -40 to +150 | EMSOP8, DFN3X3-8, SOT223-3 |
| TPL8034Q | Preview | Automotive | 3~42 | Fixed (3.3, 5.0) | ±1.5% | 300 | 0.002 | 70 | 80 | 400 | -40 to +150 | EMSOP8 |
| TPL8032 | Production | Industrial | 2.5~20 | Adjustable (1.22~18), Fixed (1.8, 3.3, 5.0) | ±2% | 300 | 0.098 | 79 | 5.68 | 350 | -40 to +125 | SOT23-5 |
| TPL8032-S | Production | Industrial | 2.5~20 | Adjustable (1.22~18), Fixed (1.8, 3.3, 5.0) | ±2% | 300 | 0.098 | 79 | 5.68 | 350 | -40 to +125 | SOT23-5 |
| TPL8032Q | Preview | Automotive | 2.5~20 | Adjustable (1.22~18) | ±2% | 300 | 0.098 | 80 | 5.68 | 450 | -40 to +150 | ESOP8 |
| TPL8033 | Production | Industrial | 2~20 | Adjustable (1.2~15) | ±1% | 200 | 2.2 | 110 | 1 | 250 | -40 to +150 | DFN3X3-10, EMSOP10 |
| TPL810 | Production | Industrial | 3.6~24 | Adjustable (1.2~15), Fixed (2.8, 3.0, 3.3, 5.0) | ±2% | 180 | 0.002 | 73 | 70 | 800 | -40 to +125 | SOT23-3, SOT23-5, SOT89-3 |
| TPL820 | Production | Industrial | 3.6~42 | Fixed (3.0, 3.3, 5.0) | ±2% | 180 | 0.002 | 73 | 70 | 800 | -40 to +125 | SOT23-3, SOT23-5, SOT89-3, SOT223-3 |
| TPL8151 | Production | Industrial | 2.75~29 | Adjustable (1.25~25) | ±2% | 1500 | / | 79 | 30 | 1200 | -40 to +125 | DFN4X4-8 |
| TPL8151-S | Production | Industrial | 2.75~29 | Adjustable (1.25~25) | ±2% | 1500 | / | 79 | 30 | 1200 | -40 to +125 | DFN4X4-8 |
| TPL8151Q | Preview | Automotive | 2.75~29 | Adjustable (1.25~25) | ±2% | 1500 | / | 79 | 30 | 1200 | -40 to +150 | ESOP8 |
| TPL8651Q | Preview | Automotive | 3.5~42 | Adjustable (2~42) | ±5mV | 150 | 0.005 | 65 | 25 | 150 | -40 to +150 | ESOP8 |
| TPL8652Q | Preview | Automotive | 3.5~42 | Adjustable (2~42) | ±5mV | 250 | 0.005 | 65 | 25 | 250 | -40 to +150 | ESOP8 |

电压基准

VOLTAGE REFERENCE

并联型电压基准

Shunt Voltage Reference

| Part Number | Status | Rating | Output Voltage | I _{sink} (min)(mA) | I _{sink} (max)(mA) | Accuracy | TC (ppm/°C) | 10 to 10kHz Voltage Noise (μVrms) | Output Capacitor Load (μF) | Package |
|-------------|------------|------------|---|-----------------------------|-----------------------------|----------|-------------|-----------------------------------|----------------------------|---------|
| TPR6040 | Production | Industrial | Fixed(2.048, 2.5, 3.0, 4.096, 5.0, 8.192, 10.0) | 0.15 | 15 | 0.20% | 50 | 90 | Any Load | SOT23-G |
| TPR6040-S | Production | Industrial | Fixed(2.048, 2.5, 3.0, 4.096, 5.0, 8.192, 10.0) | 0.15 | 15 | 0.10% | 25 | 90 | Any Load | SOT23-G |
| TPR431 | Production | Industrial | Adjustable(VREF to 36V) | 1 | 80 | 0.50% | 50 | / | / | SOT23-G |
| TPR431-S | Production | Industrial | Adjustable(VREF to 36V) | 1 | 80 | 0.50% | 50 | / | / | SOT23-G |
| TPR432 | Production | Industrial | Adjustable(VREF to 36V) | 1 | 80 | 0.50% | 50 | / | / | SOT23-G |

串联型电压基准

Series Voltage Reference

| Part Number | Status | Rating | Output Voltage | V _{in} (min)(V) | V _{in} (max)(V) | I _q (max)(μA) | Accuracy (max) | TC (-40 to 85°C) (ppm/°C) | TC (-40 to 125°C) (ppm/°C) | 0.1 to 10Hz Output Voltage Noise (μVpp) | Line Regulation (max)(ppm/V) | Load Regulation (max)(ppm/mA) | Output Capacitor Load (μF) | Package |
|-------------|------------|------------|---|--------------------------|--------------------------|--------------------------|----------------|---------------------------|----------------------------|---|------------------------------|-------------------------------|----------------------------|--------------|
| TPR35 | Production | Industrial | Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096) | max(Ver+0.05, 2.1) | 5.5 | 165 | 0.20% | 30 | 50 | 50 | 50 | 20 | 0.1 to 10 | SOT23-G |
| TPR33 | Production | Industrial | Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096) | max(Ver+0.05, 2.1) | 5.5 | 165 | 0.15% | 20 | 30 | 50 | 50 | 20 | 0.1 to 10 | SOT23-G |
| TPR33-S | Production | Industrial | Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096) | max(Ver+0.05, 2.1) | 5.5 | 165 | 0.15% | 20 | 30 | 50 | 50 | 20 | 0.1 to 10 | QFN1.5X1.5-8 |
| TPR50 | Preview | Industrial | Fixed (1.25, 2.048, 2.5, 3.0, 3.3, 4.096, 4.5, 5.0) | max(Ver+0.2, 3) | 16 | 1000 | 0.05% | 3 | 5 | 3 | 5 | 2.5 | 0.22 to 100 | SOP8 |

监控电源 SUPERVISORS

电源监控和复位芯片

VOLTAGE SUPERVISORS AND RESET ICs

| Part Number | Status | Rating | Power Consumption (μA) | Power Supervisor | Manual Reset Input | Watchdog | Power Fail Input (PFI) | Reset Timeout Period (mS) | Watchdog Timeout Period (S) | Reset Output Polarity | Reset Output Type | Temperature Range (°C) | Package |
|-------------|------------|------------|------------------------|------------------|--------------------|----------|------------------------|---------------------------|-----------------------------|-----------------------|-------------------|------------------------|---------------------------|
| TPV803 | Production | Industrial | 2.2 | Yes | / | / | / | 200 | / | Low Active | Open Drain | -40 to +125 | SOT23G-3 |
| TPV809 | Production | Industrial | 2.2 | Yes | / | / | / | 200 | / | Low Active | Open Drain | -40 to +125 | SOT23-3, SOT23G-3, SOT363 |
| TPV810 | Production | Industrial | 2.2 | Yes | / | / | / | 200 | / | High Active | Push-Pull | -40 to +125 | SOT23G-3 |
| TPV811 | Production | Industrial | 2.2 | Yes | Yes | / | / | 200 | / | Low Active | Push-Pull | -40 to +125 | SOT143 |
| TPV821 | Production | Industrial | 2.2 | Yes | Yes | / | / | 200 | / | Low Active | Open Drain | -40 to +125 | SOT143 |
| TPV8308 | Preview | Industrial | 1.5 | Yes | Yes | / | / | Programmable | / | Low Active | Open Drain | -40 to +125 | SOT23-6 |
| TPV8348 | Preview | Industrial | 1.5 | Yes | Yes | / | / | Programmable | / | High Active | Push-Pull | -40 to +125 | DFN1.5X1-6 |
| TPV8368Q | Preview | Industrial | 6.2 | Yes | Yes | / | / | Programmable | / | High Active | Push-Pull | -40 to +125 | SOT23-6 |

集成看门狗的复位芯片

Reset ICs with Watchdog

| Part Number | Status | Rating | Power Consumption (μA) | Power Supervisor | Manual Reset Input | Watchdog | Power Fail Input (PFI) | Reset Timeout Period (mS) | Watchdog Timeout Period (S) | Reset Output Polarity | Reset Output Type | Temperature Range (°C) | Package |
|-------------|------------|------------|------------------------|------------------|--------------------|----------|------------------------|---------------------------|-----------------------------|-------------------------|-------------------|------------------------|---------|
| TPV6823 | Production | Industrial | 2.2 | Yes | Yes | Yes | / | 200 | 1.6 | Low Active | Push-Pull | -40 to +125 | SOT23-5 |
| TPV706 | Production | Industrial | 4 | Yes | Yes | Yes | Yes | 200 | 1.6 | Low Active | Push-Pull | -40 to +125 | SOP8 |
| TPV708 | Preview | Industrial | 4 | Yes | Yes | / | Yes | 200 | / | Low Active, High Active | Push-Pull | -40 to +125 | SOP8 |

电源时序控制

POWER SEQUENCER

| Part Number | Status | Rating | VCC (V) | Timing Control | Power-up Sequence Control | Power-down Sequence Control | Open-Drain Output | Output Voltage (V) | Channels | Junction Temperature Range (°C) | Package |
|-------------|------------|------------|-----------|------------------------------------|---------------------------|-----------------------------|-------------------|--------------------|----------|---------------------------------|---------|
| TPK1032 | Production | Industrial | 2.7 ~ 5.5 | 11ms, 30ms, 60ms, 120ms, 2ms, 16ms | FLAG1->FLAG2->FLAG3 | FLAG3->FLAG2->FLAG1 | Yes | 0 ~ VCC | 3 | -40 to +125 | SOT23-3 |
| TPK1031 | Production | Industrial | 2.7 ~ 5.5 | Adjustable | FLAG1->FLAG2->FLAG3 | FLAG3->FLAG2->FLAG1 | Yes | 0 ~ VCC | 3 | -40 to +125 | MSOP8 |

Contact 3PEAK Sales For More Products Information and Samples

驱动器 DRIVERS

步进马达驱动 Stepper Motor Drivers

| Part Number | Status | Rating | VIN (V) | # of Channel | Max Output Current (A) | Package |
|-------------|------------|------------|---------|--------------|------------------------|---------------|
| TPM0596 | Production | Industrial | 5-50 | 8 | 0.5 | TSSOP16 |
| TPM2803 | Production | Industrial | 5-50 | 8 | 0.5 | SOP18 |
| TPM2003 | Production | Industrial | 5-50 | 7 | 0.5 | SOP16、TSSOP16 |
| TPM2001 | Production | Industrial | 5-50 | 4 | 1 | MSOP10 |

直流马达驱动 DC Motor Drivers

| Part Number | Status | Rating | VIN (V) | Rdson (H+L)(Ω) | Max Output Current (A) | # of Half Bridges | Temperature Range ($^{\circ}$ C) | Package |
|-------------|------------|------------|---------|-------------------------|------------------------|-------------------|-----------------------------------|--------------------|
| TPM8870 | Preview | Industrial | 4.5-36 | 0.7 | 3.5 | 2 | -40 to +125 | ESOP8 |
| TPM8876 | Preview | Industrial | 4.5-36 | 0.7 | 3.5 | 2 | -40 to +125 | ETSSOP16、QFN3X3-16 |
| TPM8837C | Production | Industrial | 2.5-17 | 0.85 | 1 | 2 | -40 to +125 | DFN2X2-8 |
| TPM16050 | Production | Industrial | 3-17 | 0.85 | 0.5 | 2 | -40 to +125 | SOT23-6 |

非隔离栅极驱动 Non-isolated Gate Drivers

| Part Number | Status | Rating | VIN (V) | # of Channel | Max Output Current (A) | Input Voltage Range (V) | Junction Temperature Range (°C) | Rise / fall time (ns) | Propagation Delay (ns) | Delay Matching (ns) | Package |
|-------------|------------|------------|-----------|--------------|------------------------|-------------------------|---------------------------------|-----------------------|------------------------|---------------------|-------------------------------|
| TPM2015Q | Preview | Automotive | 4.75-5.25 | 1 | 7 | 0-5 | -40 to +150 | 0.45/0.45 | 2 | n/a | QFN2X2-10 |
| TPM2025 | Production | Industrial | 4.75-5.25 | 2 | 7 | 0-5 | -40 to +150 | 0.45/0.45 | 2 | 0.05 | QFN2X2-10 |
| TPM2025Q | Preview | Automotive | 4.75-5.25 | 2 | 7 | 0-5 | -40 to +150 | 0.45/0.45 | 2 | 0.05 | QFN2X2-10 |
| TPM27523 | Production | Industrial | 4.5-25 | 2 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | < 1 | SOP8、EMSOP8、DFN2X2-8、DFN3X3-8 |
| TPM27524 | Production | Industrial | 4.5-25 | 2 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | < 1 | SOP8、EMSOP8、DFN2X2-8、DFN3X3-8 |
| TPM27525 | Production | Industrial | 4.5-25 | 2 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | < 1 | SOP8、EMSOP8、DFN2X2-8、DFN3X3-8 |
| TPM27526 | Production | Industrial | 4.5-25 | 2 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | < 1 | SOP8、EMSOP8、DFN2X2-8、DFN3X3-8 |
| TPM27524Q | Preview | Automotive | 4.5-25 | 2 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | < 1 | SOP8、EMSOP8、DFN2X2-8 |
| TPM27517 | Production | Industrial | 4.5-25 | 1 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | n/a | SOT23-5 |
| TPM44273 | Production | Industrial | 4.5-25 | 1 | 5 | -5-20 | -40 to +150 | 7/6 | 14 | n/a | SOT23-5 |
| TPM27217 | Preview | Industrial | 4.5-23 | 1 | 2 | -5-20 | -40 to +150 | 8/9 | 18 | n/a | SOT23-5 |
| TPM27224 | Preview | Industrial | 4.5-23 | 2 | 2 | -5-20 | -40 to +150 | 8/9 | 18 | 1 | SOP8、DFN2X2-8 |
| TPM27201 | Preview | Industrial | 120 | HS+LS | 2.5/3.5 | -5-20 | -40 to +150 | 12/10 | 16 | 1 | DFN4X4-8、ESOP8、SOP8 |
| TPM27221 | Preview | Industrial | 120 | HS+LS | 2.5/3.5 | -5-20 | -40 to +150 | 12/10 | 16 | 1 | DFN4X4-10、DFN4X4-8、ESOP8、SOP8 |
| TPM27282 | Preview | Industrial | 120 | HS+LS | 2.5/3.5 | -5-20 | -40 to +150 | 12/10 | 16 | 1 | DFN3X3-10、SOP8 |

隔离栅极驱动 Isolated Gate Drivers

| Part Number | Status | Rating | Feature | Isolation rating (Vrms) | # of Channel | Peak Output Current (A) | Junction Temperature Range (°C) | Output Voltage Max (V) | Output Voltage Min (V) | Propagation Delay (ns) | Package |
|-------------|---------|------------|---|-------------------------|--------------|-------------------------|---------------------------------|------------------------|------------------------|------------------------|---------|
| TPM23513 | Preview | Industrial | Opto-compatible input | 5700 | 1 | 5/5 | -40 to +150 | 40 | 14 | 70 | WSOP6 |
| TPM23514M | Preview | Industrial | Opto-compatible input, Miller Clamp | 5700 | 1 | 5/5 | -40 to +150 | 40 | 14 | 70 | WSOP8 |
| TPM23514S | Preview | Industrial | Opto-compatible input, Split Output | 5700 | 1 | 5/5 | -40 to +150 | 40 | 14 | 70 | WSOP8 |
| TPM23514D | Preview | Industrial | Opto-compatible input, Desat Protection | 5700 | 1 | 5/5 | -40 to +150 | 40 | 14 | 70 | WSOP8 |
| TPM23514V | Preview | Industrial | Opto-compatible input | 5700 | 1 | 5/5 | -40 to +150 | 40 | 14 | 70 | WSOP8 |

Contact 3PEAK Sales For More Products Information and Samples

DCDC

DCDC

宽压降压转换器 Wide-Vin Buck Converter

| Part Number | Status | Rating | VIN (V) | Output (V) | Max Output Current (A) | Control Mode | Temperature Range (°C) | Package |
|-------------|------------|------------|---------|------------|------------------------|-------------------|------------------------|-------------------------|
| TPP00061 | Preview | Industrial | 4.5~100 | 1.225~100 | 1 | Constant On-time | -40 to +125 | ESOP8、DFN3X3-8、DFN4X4-8 |
| TPP60308 | Preview | Industrial | 4.5~60 | 0.8~60 | 3.5 | Peak Current Mode | -40 to +125 | ESOP8 |
| TPP60508 | Production | Industrial | 4.5~60 | 0.8~60 | 5 | Peak Current Mode | -40 to +125 | DFN4X4-10 |
| TPP362080 | Production | Industrial | 4.5~36 | 0.6~36 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP362081 | Production | Industrial | 4.5~36 | 0.6~36 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP362082 | Production | Industrial | 4.5~36 | 0.6~36 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP362083 | Production | Industrial | 4.5~36 | 0.6~36 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP363080 | Production | Industrial | 4.5~36 | 0.6~36 | 3 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP363081 | Preview | Industrial | 4.5~36 | 0.6~36 | 3 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP363082 | Production | Industrial | 4.5~36 | 0.6~36 | 3 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP363083 | Preview | Industrial | 4.5~36 | 0.6~36 | 3 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP302080 | Production | Industrial | 4.5~30 | 0.6~30 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP302081 | Preview | Industrial | 4.5~30 | 0.6~30 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP302082 | Production | Industrial | 4.5~30 | 0.6~30 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP302083 | Preview | Industrial | 4.5~30 | 0.6~30 | 2 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361080 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361081 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361082 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361083 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361060 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361061 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361062 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |
| TPP361063 | Preview | Industrial | 4.5~36 | 0.6~36 | 1 | Peak Current Mode | -40 to +125 | TSOT23-6 |

Contact 3PEAK Sales For More Products Information and Samples

中压降压转换器 Mid-Voltage Buck Converter

| Part Number | Status | Rating | VIN (V) | Output (V) | Max Output Current (A) | Control Mode | Temperature Range (°C) | Package |
|-------------|------------|------------|---------|------------|------------------------|-------------------|------------------------|---------------|
| TPP2020 | Production | Industrial | 4.5~17 | 0.8~17 | 2 | Constant On-time | -40 to +125 | SOT23-6 |
| TPP20608x | Production | Industrial | 4.5~17 | 0.6~17 | 6 | Peak Current Mode | -40 to +125 | QFN3.5X3.5-14 |

低压降压转换器 Low-Voltage Buck Converter

| Part Number | Status | Rating | VIN (V) | Output (V) | Max Output Current (A) | Control Mode | Temperature Range (°C) | Package |
|-------------|---------|------------|---------|------------|------------------------|-------------------|------------------------|-----------|
| TPP05608 | Preview | Industrial | 2.8~6 | 0.6~6 | 6 | Peak Current Mode | -40 to +125 | QFN3X3-16 |

升压转换器 Boost Converter

| Part Number | Status | Rating | Feature | VIN (V) | Output (V) | Max Output Current (A) | Temperature Range (°C) | Package |
|-------------|------------|------------|---|----------|------------|------------------------|------------------------|-----------------|
| TPQ05100 | Production | Industrial | Adjustable output voltage. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ051007 | Preview | Industrial | 5V fixed output. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ051006 | Preview | Industrial | 4.5V fixed output. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ051005 | Preview | Industrial | 3.6V fixed output. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ051004 | Preview | Industrial | 3.3V fixed output. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ051003 | Preview | Industrial | 3V fixed output. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ051002 | Preview | Industrial | 2.5V fixed output. Ultra low quiescent current 20nA | 0.9~5.5 | 1.8~5.5 | 0.6 | -40 to +125 | DFN2X2-6, WLCSP |
| TPQ80302 | Preview | Industrial | Integrated load disconnect | 3.1 ~ 60 | VIN ~ 80 | 3.5 | -40 to +125 | QFN3X3-16 |

电池管理

BATTERY MANAGEMENT

线性充电芯片 Linear Charger

| Part Number | Status | Rating | VIN MAX. (V) | Floating Voltage (V) | Accuracy | Max Output Current (mA) | IBAT (μA.) | OVP (V) | Temperature Range (°C) | Package |
|-------------|------------|------------|--------------|----------------------|----------|-------------------------|------------|---------|------------------------|-----------------|
| TPB4056A20 | Production | Industrial | 26.5 | 4.2 | 1% | 1000 | 4 | 6.8 | -40 to +85 | ESOP8, DFN2×2-8 |
| TPB4056A2X | Preview | Industrial | 26.5 | 4.2 | 1% | 1000 | 4 | 10.5 | -40 to +85 | ESOP8, DFN2×2-8 |
| TPB4056A3X | Preview | Industrial | 26.5 | 4.35 | 1% | 1000 | 4 | 10.5 | -40 to +85 | ESOP8, DFN2×2-8 |
| TPB4056B2X | Preview | Industrial | 26.5 | 4.2 | 1% | 1000 | 4 | 10.5 | -40 to +85 | ESOP8, EMSOP8 |

电池保护 Battery Protector

| Part Number | Status | Rating | VIN (V) | OV Threshold (V) | UV Threshold (V) | Charge Overcurrent (mV) | Discharge Overcurrent 1 (mV) | Discharge Overcurrent 2 (mV) | Short-circuit Overcurrent (ns) | OV Charge | Package |
|-------------|------------|------------|---------|------------------|------------------|-------------------------|------------------------------|------------------------------|--------------------------------|-----------|--------------|
| TPB71703VI | Preview | Industrial | 6 | 4.495 | 2.350 | -21.0 | 21.0 | 30.0 | 80.0 | No | DFN1.4X1.8-6 |
| TPB71703VO | Preview | Industrial | 6 | 4.550 | 2.100 | -29.0 | 21.0 | 30.0 | 80.0 | No | DFN1.4X1.8-6 |
| TPB71703VP | Preview | Industrial | 6 | 4.575 | 2.350 | -24.0 | 10.5 | 16.5 | 42.0 | No | DFN1.4X1.8-6 |
| TPB71703VT | Preview | Industrial | 6 | 4.625 | 2.100 | -27.0 | 10.5 | 16.5 | 42.0 | No | DFN1.4X1.8-6 |
| TPB7462GGA | Production | Industrial | 28 | 4.500 | 2.30 | / | / | / | / | / | DFN2X2-8 |

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