

- Analog Signal Chain
- Power Management

TPA8003

2.2V Isolated Amplifier

5000-VRMS Isolation Rating per UL 1577

Features:

- CMTI: 100 kV/μs
- Input Voltage Range: 2.2 V
- Fixed Gain: 1
- Low Offset Error: 1.5 mV at 25°C (Max)
- Very Low Gain Error: 0.3% at 25°C (Max)
- – VDE Certification According to DIN VDE V 0884-17 (IEC60747-17)
- Wide Temperature Range: –40°C to +125°C



Analog Signal Chain - Amplifiers

Available in WSOP8

Applications:

- Motor Control
- Power Supplies
- Automotive OBC

Related Parts: TPA800x Series

[Product Page](#) | [Datasheet](#) | [Buy on DigiKey](#)

Analog Signal Chain - Interface

Available in QFN2.5x4.5-20

Applications:

- Notebook, Tablets, PC, Server
- Switch, Router
- OTN Transport
- Medical Equipment
- Wireless Infrastructure
- Test and Measurement



TPD160221

2:1 Multiplexer/Demultiplexer Switch Dual Channel, 16Gbps High Speed Switching

Features:

- Two Bidirectional Differential Channels, 2:1 Multiplexer/Demultiplexer
- High-Speed Signal Switching up to 16Gbps
- High Bandwidth: 12GHz @ –3dB
- Low Insertion Loss: –2.1dB @ 8GHz
- Low Return Loss: –12dB @ 8GHz, Low Off-Isolation: –10dB @ 8GHz
- Low Intra/Inter-Channel Skew: 10/15ps max
- Support anti-backflow to power on control signals (OE /SEL)
- Single Supply Voltage: 3.3 V

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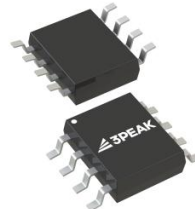
TPT9H221

Multipoint Differential Line Driver/Receiver

–1 to 3.4V Common Mode Voltage Range

Features:

- Low-Voltage Differential 30Ω to 55Ω Line Drivers
- Receivers for Signaling Rates up to 200 Mbps
- Exceeds the Standard TIA/EIA-899 for Multipoint Data Interchange
- Type-2 Receivers have Offset (100 mV) Threshold to Detect Open-Circuit
- –1V to 3.4V Common-Mode Voltage Range
- Allows Data Transfer with 2V of Ground Noise
- Bus Pins High Impedance when Disabled or VCC ≤ 1.5V
- Bus-Pin Protection: +8kV HBM model



Analog Signal Chain – Interface

Available in SOP8

Applications:

- Backplane Multipoint Data/Clock Trans
- Cellular Base Stations
- Network Switches and Routers
- Industrial Control
- Communication Infrastructure

Related Parts: TPT9H111, TPT9H221A

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- Analog Signal Chain
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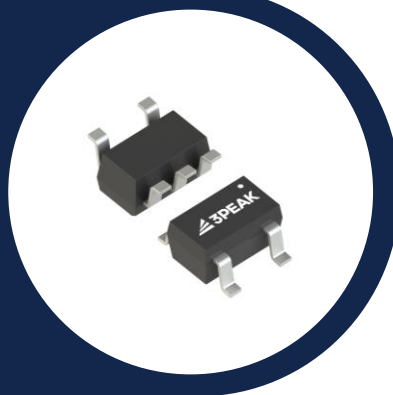
TPM6501Q

Automotive 1A Transformer Driver

2.25V to 5.5V Supply, Low Noise & Low EMI

Features:

- Automotive AEC-Q100, Grade 1 Qualified
- Input Voltage Range: 2.25V to 5.5V
- Internal oscillators support 420kHz (TPM6501A) and 2.2MHz (TPM6501B) switching frequency
- Low noise and low EMI with spread spectrum
- Over Temperature and Current Limit protection



Power Management - Isolation

Available in SOT23-5

Applications:

- Isolated Power Supply for Gate Drivers
- Isolated Power Supply for Battery Monitors
- Isolated Power Supply for Interface Drivers

Related Parts: TPM6501x Series

[Product Page](#) | [Datasheet](#)

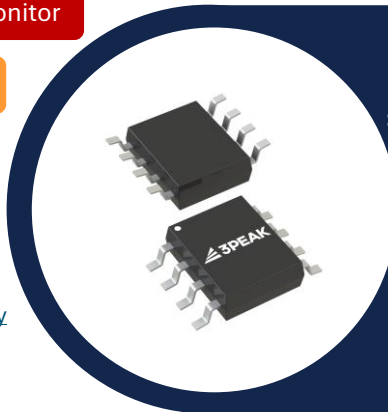
TPA9152

Unity-Gain Difference Amplifier

±275 Common Mode Voltage

Features:

- Supply Voltage: 4.5 V to 36 V (± 2.25 V to ± 18 V)
- Offset Voltage: ± 1 mV (Max)
- Gain Error: 0.03% (Max)
- Bandwidth: 500 kHz, Slew Rate: 10 V/ μ s
- EMI Enhancement
- Operating Temperature Range: -40°C to 125°C



Power Management – Current/Power Monitor

Available in SOP8

Applications:

- Current Sense on High Common Voltage
- Battery Voltage Monitor
- Industrial Control

[Product Page](#) | [Datasheet](#) | [Buy on DigiKey](#)

TPQ50571Q

Nonsynchronous Boost/SEPIC/Flyback

2.2MHz Switching, 2.6 μ A Low Shutdown

Features:

- Automotive AEC-Q100, Grade 1 Qualified
- 2.9V to 45V Input Supply Voltage Range
- Minimum Boost Supply Voltage of 1.5V when $V_{IN} > 2.9$ V
- Low Shutdown Current (2.6 μ A), Low Operating Current (570 μ A)
- Programmable Switching Frequency Range from 100kHz to 2.2 MHz
- 39-m Ω RDSON Power Switch
- Optional External Clock Synchronization
- $\pm 1\%$ Reference Voltage Accuracy



Power Management - Boost Converter

Available in QFN3x3-16

Applications:

- Automotive Start-Stop Application
- Automotive Flyback without Optocoupler
- Automotive LED Lighting Supply
- General Boost, SEPIC, Flyback Applications

[Product Page](#) | [Datasheet](#)

3PEAK Product Newsletter Part Summary:

Part Series	Product Description	Product Type	Quality Grade	Datasheet	Buy On DigiKey
TPL8032	IC REG LINEAR 3.3V 300mA	LDO	Industrial	Link	Link
TPR50	IC VREF SERIES 2.5V .05%	REF	Industrial	Link	Link
TPT1042	IC TRANSCEIVER 1/1	CAN	Automotive	Link	Link
TPA9151	IC VOLTAGE DIFFERENCE AMP	DIFF AMP	Industrial	Link	Link
TPC5180	IC ADC 18BIT 8 CH SAR	ADC	Industrial	Link	Link
TPQ05100	IC REG BOOST ADJ 600mA	BOOST	Industrial	Link	Link
TPL910Q	IC REG LINEAR ADJ 1A	LDO	Automotive	Link	Contact Sales
TPA8001	IC OPAMP ISOLATION 1 CIR	ISO AMP	Automotive	Link	Link
TPAFE411	IC HALL SENSOR AFE	HALL SENSOR	Industrial	Link	Link
TPT1021Q	IC TRANSCEIVER LIN	LIN	Automotive	Link	Link
TPA5581	IC OPAMP ZERO-DRIFT 1 CIR	OPA	Industrial	Link	Link
TPAFEA008	IC VOLTAGE/CURRENT DAC/ADC 4 CH	AFE	Industrial	Link	Link
TPR8601	RES ARRAY 4 RES 10K OHM	RES	Industrial	Link	Link
TPE15017	IC POE FLYBACK CONVERTER	POE DCDC	Industrial	Link	Link
TPA5511	IC OPAMP ZERO-DRIFT 1 CIR	OPA	Industrial	Link	Link
TPC5120Q	IC ADC 12BIT 16 CH SAR	ADC	Automotive	Link	Link
TPA2031Q	IC COMPARATOR GEN PUR 1	COMP	Automotive	Link	Link
TPH2861Q	IC OPAMP 8GHZ 1 CIR	OPA	Automotive	Link	Link
TPC5161	IC ADC 16BIT 8 CH SAR	ADC	Industrial	Link	Link
TPM8860	IC LOW SIDE DRIVER 48V	STEPPER	Industrial	Link	Link
TPT4032	IC RECEIVER 0/4	RS485	Industrial	Link	Link
TPA8101	IC DELTA-SIGMA MODULATOR	ISO AMP	Industrial	Link	Link
TPC2160	IC 16-BIT HIGH ACCURACY DAC	DAC	Industrial	Link	Link
TPM8803	IC LOW SIDE DRIVER 48V 3A	STEPPER	Industrial	Link	Link
TPA2296T	IC OPAMP CURRENT SENSE	CS AMP	Industrial	Link	Link
TPT1255	IC TRANSCEIVER CAN	CAN	Industrial	Link	Link
TPT7741F	DGTL ISO 3750VRMS 4CH	ISO	Industrial	Link	Link
TPP60506	IC DCDC STEP-DOWN CONVERTER	BUCK	Industrial	Link	Link
TPM23513	IC ISO HS DRIVER	ISO	Industrial	Link	Link
TPT3243	IC TRANSCEIVER 2/2	RS232	Industrial	Link	Link
TPT480	IC Transceiver 1/1 8-DFN	RS485	Industrial	Link	Link
TPA191	IC OPAMP Current Sense 1 CIR SC70	CSAMP	Industrial	Link	Link
TPS05P50	IC EFUSE SWITCH 10-DFN	EFUSE	Industrial	Link	Link
TPT1051	IC TRANSCEIVER CAN 8-DFN	CAN	Industrial	Link	Link
TPM6501A	IC TRANS DRIVER SOT23-5	STEPPER	Industrial	Link	Link
TPL8020	IC REG LINEAR 5V 200mA SOT23-5	HVLDO	Industrial	Link	Link
TPL9305-S	IC REG LINEAR ADJ 3A 20-QFN	HVLDO	Industrial	Link	Link
TPA1834	IC OPAMP 30V ZERO DRIFT	LVLDO	Industrial	Link	Link
TPS14P50	IC EFUSE SWITCH 10-DFN	HVOPA	Industrial	Link	Link
TPA2862	IC OPAMP 36V LOW NOISE	EFUSE	Industrial	Link	Link
TPC6240	IC 16-BIT PRECISION DELTA-SIGMA ADC	PADC	Industrial	Link	Link
TPA9361	IC VOLTAGE DIFFERENCE AMP 8-SOP	DIFFAMP	Industrial	Link	Link
TPA132Q	IC OPAMP Current Sense 1 Cir 8-SOP	CSAMP	Automotive	Link	Link
TPT1029Q	IC TRANSCEIVER LIN 8-DFN	LIN	Automotive	Link	Link

TPS65R01Q	IC CTRLR IDEAL DIODE SOT23-6	HSWAP	Industrial	Link	Link
TPP00031	IC REG BUCK 100V 300mA 8-DFN	HVBUCK	Industrial	Link	Link
TPCMP272	IC COMPARATOR HS 2 CIR 8-SOP	COMP	Industrial	Link	Link
TPA9363	IC VOLTAGE DIFFERENCE AMP 8-SOP	DIFFAMP	Industrial	Link	Link
TPL8035Q	IC REG LINEAR 42V 300mA Low Iq 8-DFN	HVLDO	Automotive	Link	Link
TPCMP252	IC COMPARATOR GP 2 CIR 8-SOP	COMP	Industrial	Link	Link
TPT3335	IC Transceiver 2/2 28-QFN	RS232	Industrial	Link	Link
TPA6271	IC Current Power Monitor 10-MSOP	AFE	Industrial	Link	Link
TPL8556Q	IC REG LINEAR 42V 300mA Low Iq	HVLDO	Automotive	Link	Link
TPQ50551Q	IC BOOST CONVERTER FLYBACK 2.2MHz	BST	Automotive	Link	Available soon!
TPT9H221	IC MULTIPOINT LINE DRIVER SOP8	MLVDS	Industrial	Link	Link
TPD160221	IC Multiplexer/Demultiplexer Switch	HSMUX	Industrial	Link	Link
TPA8003	IC OPAMP Isolation 1 CIR 8-WSOP	ISOAMP	Industrial	Link	Link
TPM6501Q	IC TRANS DRIVER SOT23-5	STEPPER	Automotive	Link	Available soon!
TPA9152	IC VOLTAGE DIFFERENCE AMP 8-SOP	DIFFAMP	Industrial	Link	Link
TPQ50571Q	IC BOOST CONVERTER FLYBACK 2.2MHz	BST	Automotive	Link	Available soon!