

# EXAR Power Management



This product is RoHS compliant.



Power Management

## EXAR BOOST REGULATORS

### Features:

- High Efficiency
- Simple, Low-Cost Circuit
- Low Quiescent Current: Down to 10µA

### Applications:

- Mobile Phone Camera Flash
- Solar Landscape Lighting
- Flashlights
- Wireless Mouse

For quantities 250 and up, call for quote.

| MOUSER STOCK NO. | Exar Part No. | Package Type | Temperature Range | Iout (mA) | Vin Min | Vin Max | IQ (µA) | Vout Min | Vout Max | Freq (kHz) | Efficiency % | Price Each |      |      |
|------------------|---------------|--------------|-------------------|-----------|---------|---------|---------|----------|----------|------------|--------------|------------|------|------|
|                  |               |              |                   |           |         |         |         |          |          |            |              | 1          | 25   | 100  |
| 701-SP6648EU-L   | SP6648EU-L    | MSOP-10      | -45°C to 85°C     | 400       | 0.7V    | 4.5V    | 13      | 2V       | 5.5V     | -          | 94           | 2.10       | 1.59 | 1.35 |

## EXAR BUCK REGULATORS

### Features:

- High Efficiency
- High Frequency: Up to 1.5MHz
- Low Quiescent Current: Down to 20µA
- PWM/PFM Operation Modes

### Applications:

- Mobile Phones
- Pagers
- PDA/MP3
- VGA Cards



For quantities 250 and up, call for quote.

| MOUSER STOCK NO.  | Exar Part No. | Package Type | Temperature Range | Iout (mA) | Vin Min | Vin Max | IQ (µA) | Vout Min | Vout Max | Freq (kHz) | Efficiency % | Price Each |      |      |
|-------------------|---------------|--------------|-------------------|-----------|---------|---------|---------|----------|----------|------------|--------------|------------|------|------|
|                   |               |              |                   |           |         |         |         |          |          |            |              | 1          | 25   | 100  |
| 701-XRP7657EDTR-F | XRP7657EDTR-F | SOIC-8       | -40°C to 85°C     | 2000      | 4.75V   | 25V     | 1300    | 0.8V     | 21V      | 420        | 94           | 1.54       | 1.17 | .99  |
| 701-XRP6657IHB-F  | XRP6657IHB-F  | DFN-6        | -40°C to 85°C     | 1500      | 2.5V    | 5.5V    | 240     | 0.6V     | 5V       | 1300       | 95           | 2.07       | 1.56 | 1.33 |
| 701-SP34063AEN-L  | SP34063AEN-L  | SOICN-8      | -45°C to 85°C     | -         | 3V      | 36V     | 4000    | -        | -        | 110        | 80           | .56        | .424 | .36  |
| 701-SP6652ER-L    | SP6652ER-L    | MSOP-10      | -45°C to 85°C     | 1000      | 2.8V    | 5.5V    | 3000    | 0.9V     | 5V       | 1400       | 97           | 2.98       | 2.25 | 1.91 |
| 701-SP6669AEK-L   | SP6669AEK-L   | SOT23-6      | -45°C to 85°C     | 600       | 2.5V    | 5.5V    | 300     | 0.6V     | 5V       | 1500       | 94           | 1.72       | 1.30 | 1.10 |

## EXAR CHARGE PUMPS

### Features:

- No Indicator Required
- High Efficiency
- Small Size

### Applications:

- Mobile Phones
- Voltage Inversion

For quantities 250 and up, call for quote.

| MOUSER STOCK NO. | Exar Part No. | Package Type | Temperature Range | Iout (mA) | Vin Min | Vin Max | IQ (µA) | Vout Min | Vout Max | Freq (kHz) | Efficiency % | Price Each |      |      |
|------------------|---------------|--------------|-------------------|-----------|---------|---------|---------|----------|----------|------------|--------------|------------|------|------|
|                  |               |              |                   |           |         |         |         |          |          |            |              | 1          | 25   | 100  |
| 701-SP6682EU-L   | SP6682EU-L    | MSOP-10      | -45°C to 85°C     | 200       | 2.7V    | 5.5V    | 1200    | 0.3V     | 5.5V     | 600        | 75           | 2.21       | 1.67 | 1.42 |

## EXAR LED DRIVERS

### Features:

- Accurate Current Control
- PC and single wire interfaces

- Extremely Low Dropout Voltage
- Minimum External Components Needed

### Applications:

- Mobile Phones
- LCD Backlighting
- Wide Range of Portable Devices
- Operator Panels



For quantities 250 and up, call for quote.

| MOUSER STOCK NO. | Exar Part No. | Package Type | Arch           | App       | Channel | Vin Min | Vin Max | Max Series LEDs | Vdrop (mV) | Max Current Per Channel | LED Match Typ. | Price Each |      |      |
|------------------|---------------|--------------|----------------|-----------|---------|---------|---------|-----------------|------------|-------------------------|----------------|------------|------|------|
|                  |               |              |                |           |         |         |         |                 |            |                         |                | 1          | 25   | 100  |
| 701-SP6699EK-L   | SP6699EK-L    | SOT-23       | Boost          | Backlight | 1       | 2.5V    | 16V     | 6               | n/a        | 40mA                    | n/a            | 2.07       | 1.56 | 1.33 |
| 701-SP6887ER4-L  | SP6887ER4-L   | QFN-16       | Charge Pump    | General   | 4       | 2.7V    | 5.5V    | 1               | -          | 30mA                    | 3%             | 3.50       | 2.65 | 2.25 |
| 701-SP7121EK-L   | SP7121EK-L    | SOT23-6      | Linear         | General   | 2       | 2.7V    | 5.5V    | 1               | 0.18       | 25mA                    | 0.80%          | .63        | .477 | .405 |
| 701-XRP7620IH-F  | XRP7620IH-F   | DFN-8        | Current Driver | LED       | 4       | 2.7V    | 5.5V    | 4               | -          | 31mA                    | 3%             | 2.07       | 1.56 | 1.33 |

## EXAR LDO REGULATORS

### Features:

- Extremely Low Dropout Voltage
- Simple Design

- Minimum External Components Needed
- Tiny Package

### Applications:

- Mobile Phones
- PDA/MP3 Player
- Handheld Computers
- LCD Display Lighting

For quantities 250 and up, call for quote.

| MOUSER STOCK NO.    | Exar Part No.   | Package Type | Temperature Range | Iout (mA) | Vin Min | Vin Max | IQ (µA) | Acc   | Vdrop (mV) | Vout (V)    | Vout Adj. | Price Each |      |      |
|---------------------|-----------------|--------------|-------------------|-----------|---------|---------|---------|-------|------------|-------------|-----------|------------|------|------|
|                     |                 |              |                   |           |         |         |         |       |            |             |           | 1          | 25   | 100  |
| 701-SPX431AM1-L/TR  | SPX431AM1-L/TR  | SOT89-3      | 0°C to 105°C      | 150       | -       | 20V     | 1000    | 0.50% | -          | -           | No        | .49        | .371 | .315 |
| 701-SPX5205M5-L     | SPX5205M5-L     | SOT23-5      | -                 | 150       | 2.5V    | 16V     | 70      | 1%    | 210        | 1.2V - 5.0V | Yes       | .53        | .398 | .338 |
| 701-SPX5205M5-L-3-3 | SPX5205M5-L-3-3 | SOT23-5      | -                 | 150       | 2.5V    | 16V     | 70      | 1%    | 210        | 1.2V - 5.0V | Yes       | .53        | .398 | .338 |
| 701-SP6201EM5-L     | SP6201EM5-L     | SOT23-5      | -40°C to 125°C    | 200       | 2.5V    | 7V      | 28      | 2%    | 320        | 1.5V - 5.0V | Yes       | .49        | .371 | .315 |
| 701-SPX3819M5-L     | SPX3819M5-L     | SOT23-5      | -                 | 500       | 2.5V    | 16V     | 90      | 1%    | 340        | 1.2V - 5.0V | Yes       | .81        | .61  | .518 |
| 701-SPX1117M3-L     | SPX1117M3-L     | SOT223       | -                 | 800       | 2.6V    | 15V     | 5000    | 1%    | 100        | 1.5V - 5.0V | Yes       | .42        | .318 | .27  |
| 701-SPX1117M3-L-3-3 | SPX1117M3-L-3-3 | SOT223       | -                 | 800       | 2.6V    | 15V     | 5000    | 1%    | 100        | 1.5V - 5.0V | Yes       | .42        | .318 | .27  |
| 701-SPX2941T5-L     | SPX2941T5-L     | TO263        | -                 | 1000      | 3V      | 16V     | 12000   | 3%    | 280        | -           | Yes       | 1.75       | 1.33 | 1.13 |
| 701-SPX29152T5-L    | SPX29152T5-L    | TO263-5      | -                 | 1500      | 2.5V    | 16V     | 12000   | 1.50% | 390        | -           | Yes       | 2.80       | 2.12 | 1.80 |
| 701-SPX29302T5-L    | SPX29302T5-L    | TO263-5      | -                 | 3000      | 2.8V    | 16V     | 37000   | 1%    | 450        | -           | Yes       | 2.80       | 2.12 | 1.80 |
| 701-SPX29502T5-L    | SPX29502T5-L    | TO263        | -                 | 5000      | 2.8V    | 16V     | 20000   | 1%    | 370        | -           | Yes       | 5.70       | 5.02 | 4.33 |

## EXAR PWM CONTROLLERS

### Features:

- Low Voltage Output: Down To 0.8V
- High Efficiency With External MOSFETs
- High Frequency: Up To 2500kHz
- Easy To Use, Standard Topology Solutions

### Applications:

- VGA Cards
- Printer/Copier/Fax Machines
- Set Top Boxes
- Data Communications

For quantities 250 and up, call for quote.

| MOUSER STOCK NO. | Exar Part No. | Package Type | Temperature Range | Iout (mA) | Vin Min | Vin Max | Vout Min | Vout Max | Freq (kHz) | Efficiency % | Price Each |      |      |
|------------------|---------------|--------------|-------------------|-----------|---------|---------|----------|----------|------------|--------------|------------|------|------|
|                  |               |              |                   |           |         |         |          |          |            |              | 1          | 25   | 100  |
| 701-SP6125EK1-L  | SP6125EK1-L   | TSOT23-6     | -40°C to 125°C    | 300       | 4.5V    | 29V     | 0.6V     | 24V      | 300        | 95           | 1.93       | 1.46 | 1.24 |
| 701-SP6126EK1-L  | SP6126EK1-L   | TSOT23-6     | -40°C to 125°C    | 300       | 4.5V    | 29V     | 0.6V     | 24V      | 600        | 93           | 2.00       | 1.51 | 1.28 |
| 701-SP6127EK1-L  | SP6127EK1-L   | TSOT23-6     | -40°C to 125°C    | 300       | 4.5V    | 29V     | 0.6V     | 24V      | 900        | 90           | 2.10       | 1.59 | 1.35 |

## EXAR SUPERVISORS

### Features:

- Low Quiescent Current: Down To 10µA
- Accurate Trip Point
- Detection Rising And Falling VCC
- Quad System Supervisors Available

### Applications:

- Test Equipment
- Printers
- Datacom & Telecom Equipment
- Industrial Equipment

For quantities 250 and up, call for quote.

| MOUSER STOCK NO. | Exar Part No. | Package Type | Temperature Range | No. of Channels | IQ (µA) | Vcc Min (V) | Vcc Max (V) | Reset Threshold | Reset Active | Reset Output Type | Price Each |      |      |
|------------------|---------------|--------------|-------------------|-----------------|---------|-------------|-------------|-----------------|--------------|-------------------|------------|------|------|
|                  |               |              |                   |                 |         |             |             |                 |              |                   | 1          | 25   | 100  |
| 701-SP690AEN-L   | SP690AEN-L    | NSOIC-8      | -45°C to 85°C     | 1               | 60      | -           | 5.5         | 4.65V           | Low          | Other             | 2.10       | 1.59 | 1.35 |
| 701-SP705EN-L    | SP705EN-L     | SOICN-8      | -45°C to 85°C     | 1               | 60      | 1           | 5.5         | 4.65V           | Low          | Other             | 1.23       | .928 | .788 |

## EXAR USB

### Features:

- 3-5.5V Input Voltage Range
- 2.6V Undervoltage Lockout
- 500mA Cont. Load Current per Channel
- 1.25A Short Circuit Current Limit

### Applications:

- USB Power Management
- Battery Charger Circuits
- Hot Plug-in Power Supplies
- Set Top Box Ports

For quantities 250 and up, call for quote.

| MOUSER STOCK NO.  | Exar Part No. | Package Type | Temperature Range | No. of Channels | IQ (µA) | Vin Min | Vin Max | Max Current Per Channel | Enable | Price Each |      |      |
|-------------------|---------------|--------------|-------------------|-----------------|---------|---------|---------|-------------------------|--------|------------|------|------|
|                   |               |              |                   |                 |         |         |         |                         |        | 1          | 25   | 100  |
| 701-SP2525A-1EN-L | SP2525A-1EN-L | SOICN-8      | -45°C to 85°C     | 1               | 75      | 3V      | 5.5V    | 500                     | Yes    | 1.40       | 1.06 | .90  |
| 701-SP2525A-2EN-L | SP2525A-2EN-L | SOICN-8      | -45°C to 85°C     | 1               | 75      | 3V      | 5.5V    | 500                     | Yes    | 1.40       | 1.06 | .90  |
| 701-SP2526A-1EN-L | SP2526A-1EN-L | SOICN-8      | -45°C to 85°C     | 2               | 80      | 3V      | 6V      | 500                     | Yes    | 1.58       | 1.19 | 1.01 |
| 701-SP2526A-2EN-L | SP2526A-2EN-L | SOICN-8      | -45°C to 85°C     | 2               | 80      | 3V      | 6V      | 500                     | Yes    | 1.58       | 1.19 | 1.01 |

