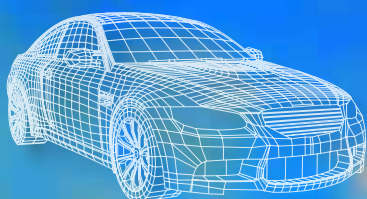
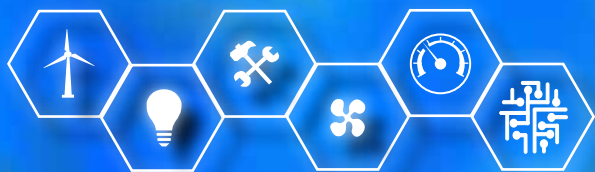


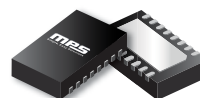
MPS - Simple, Easy Solutions

Automotive & Industrial

Power Management Solutions



www.monolithicpower.com



MPS
Monolithic Power Systems

Quality Assurance and Reliability Commitment

The MPS Quality Assurance organization develops, coordinates, and champions strategic, quality initiatives throughout MPS Inc., its foundries, and sub-contractors. Its mission is to enable MPS to design, develop, manufacture, and deliver products to our customers with world-class quality and reliability that meet and exceed our customers' expectations.

MPS and Its Supplier Quality Systems and Certificates:

- ISO9001:2008 (MPS)
- EU RoHS/HF/REACH Compliant (MPS)
- Sony Green Partner (MPS & Suppliers)
- TS16949 (Suppliers)
- ISO14001 (Suppliers)

Product Quality:

- Automotive Products Qualified per AEC-Q100 Standard
- Standard Products Qualified per JEDEC and Military Standard
- Reliability Failure Rate <10FIT
- Product Quality Level <1.0ppm

Quality Control and Monitor:

- On-Site Foundry and Assembly Teams for Real-Time Actions
- Quarterly Supplier Quality Review and Annual Supplier Audit
- Short-Term Reliability Monitor Test – Daily
- Long-Term Reliability Monitor Test – Monthly
- Real-Time Engineering Actions on Monitor Failure
- Quarterly Reliability Monitor Reports

AEC-Q100 Automotive Solutions

Body Electronics

- Switching Regulators
- Linear Regulators
- Supervisors
- Half-Bridge Drivers

Infotainment

- Class-D Audio Amplifiers
- Half-Bridge Drivers
- Linear Regulators
- Switching Regulators
- Supervisors



Communications

- Linear Regulators
- Switching Regulators
- USB Power
- USB Protection

Lighting

- LED Backlight
- LED Power

Product Highlights

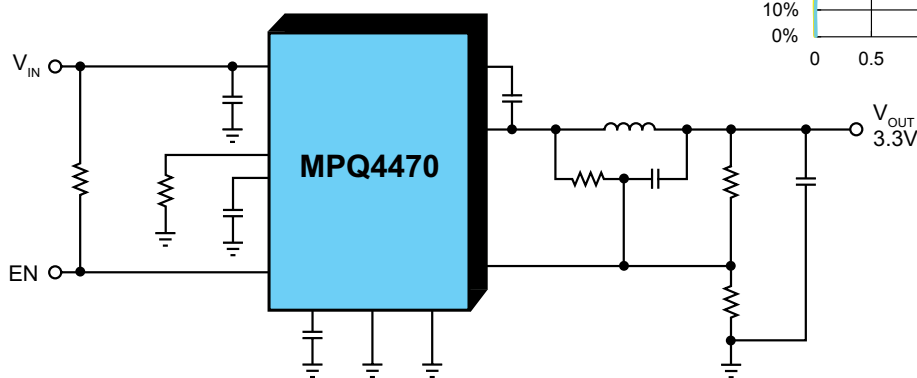
Infotainment

MPQ4470-AEC1

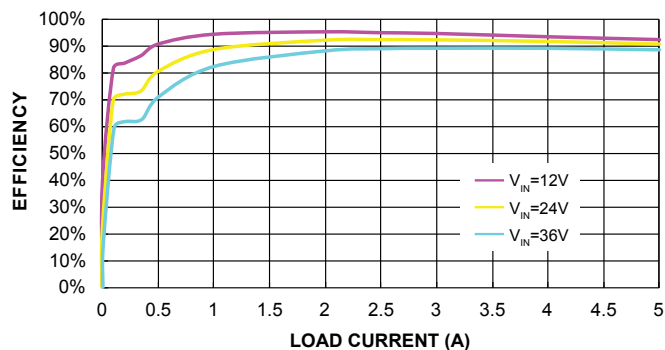
36V, 5A Step-Down Converter with Power Good and External Soft Start

Features

- Wide Supply Voltage: 4.5V to 36V
- 40mΩ/20mΩ Rds(on)
- 5A Output Current
- High Efficiency
- COT for Fast Transient Response
- SCP, OCP, OVP Latch, UVP, and Thermal Shutdown
- Available in a QFN20 3x4mm Package



Efficiency vs. Load Current

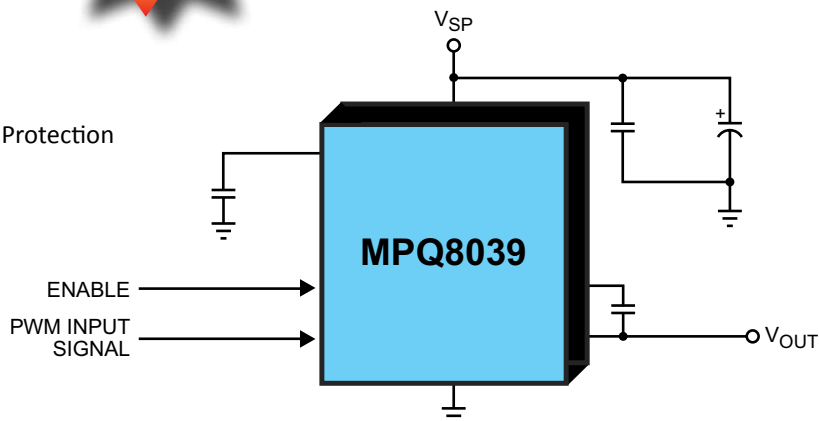


MPQ8039-AEC1 (Wireless Charger)

High-Current Power Half-Bridge

Features

- ±9A Peak Current Output
- ±4.25A Continuous Current Output
- Up to 1.2MHz Switching Frequency
- Protected Integrated Power 100mΩ Switches
- All Switches Current Limited
- Integrated Under-Voltage Protection and Thermal Protection
- 2.5μA Standby Mode
- True 2-Quadrant Operation
- Sources and Sinks Current
- Available in a SOIC8E Package

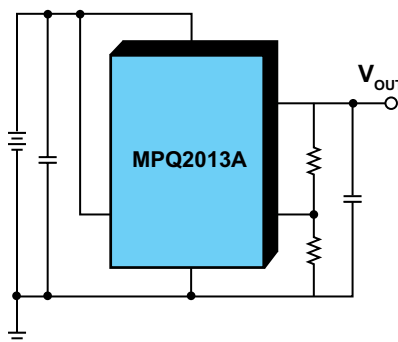
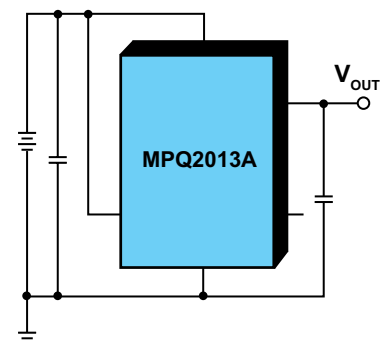


Product Highlights**Communications****MPQ2013A-AEC1**

40V, 150mA, Low Quiescent Current Linear Regulator

Features

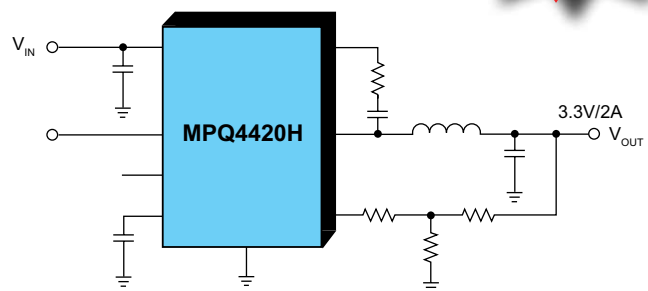
- 2.5V to 40V Input Range
- 3.2 μ A Quiescent Supply Current
- Stable With Low-Value Output Ceramic Capacitor ($>0.47\mu$ F)
- 150mA Specified Current
- 620mV Dropout at 150mA Load
- Available in a Fixed and Adjustable Output (1.215V to 15V) Versions
- Output $\pm 2\%$ Accuracy
- Specified Current Limit
- Thermal Shutdown
- Available in TSOT23-4, QFN6 2x2mm, or QFN8 3x3mm Packages

**AEC-Q100
Qualified****Output Adjustable Version****Output Fixed Version****MPQ4420H-AEC1**

2A, 36V, Synchronous Step-Down Converter with External Sync and Power Good

Features

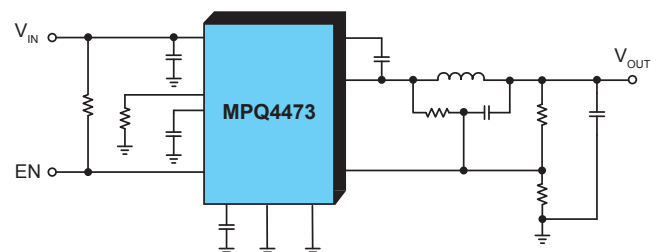
- Wide 4V to 30V Continuous Operating Input Range
- 36V Input Transient Tolerance for Automotive Load Dump
- 90m Ω /55m Ω Low Rds(on) Internal Power MOSFETs
- Default 410kHz Switching Frequency
- Synchronizes to a 200kHz to 2.2MHz External Clock
- Power-Save Mode
- Internal Soft Start and Power Good
- OCP and Hiccup
- Thermal Shutdown
- Output Adjustable From 0.8V
- Available in an 8-Pin TSOT-23 Package

**AEC-Q100
Qualified****MPQ4473-AEC1**

3.5A, 36V, Synchronous Step-Down Converter

Features

- Wide 4.5V to 36V Operating Input Range
- Guaranteed 3.5A, Continuous Output Current
- Internal 40m Ω High-Side, 20m Ω Low-Side Power MOSFETs
- Proprietary Switching-Loss-Reduction Technology
- 1% Reference Voltage
- Programmable Soft-Start Time
- Low Drop-Out Mode
- 200kHz to 1MHz Switching Frequency
- SCP, OCP, UVP, and Thermal Shutdown
- Output Adjustable from 0.8V to $0.9 \times V_{IN}$
- Available in a QFN20 3x4mm Package

**AEC-Q100
Qualified**

Product Highlights

Lighting

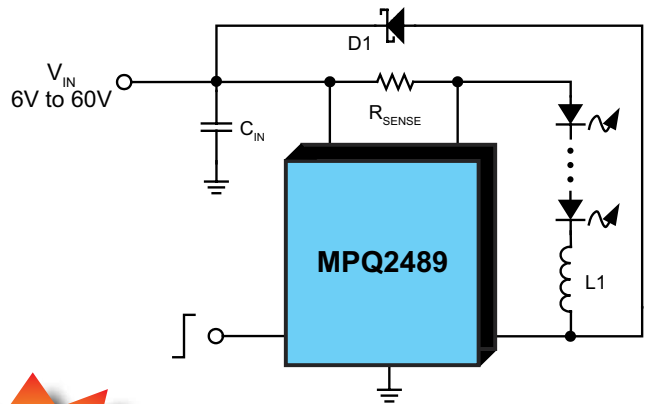
MPQ2489-AEC1

60V, 1A Step-Down LED Driver

Features

- Wide 6V to 60V Input Range
- 1000:1 Dimming, PWM, or Analog
- 65V Integrated Power FET
- Drives 1 to 14 Series Connected LEDs
- Open and Shorted LED Protection
- Thermal Shutdown Protection
- Available in a Small QFN6 3x3mm Package

**AEC-Q100
Qualified**



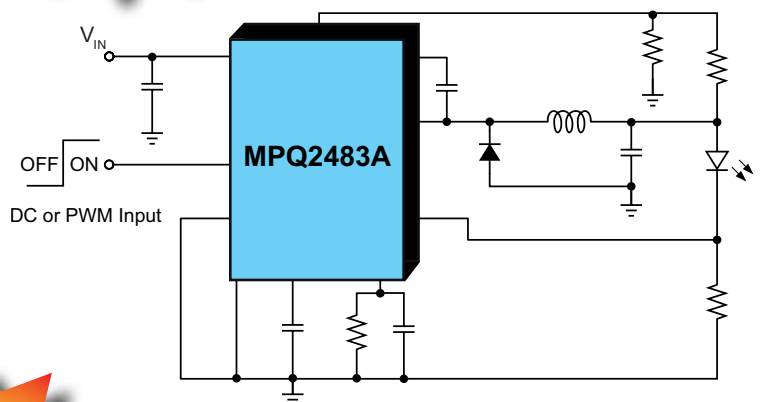
MPQ2483A-AEC1

55V, 2.5A Programmable Frequency LED Driver

Features

- Buck or Boost Mode Operation
- Wide 4.5V to 55V Operating Input Range
- 0.28Ω Internal Power MOSFET
- 5μA Shutdown Mode
- Stable with Low ESR Capacitors
- Thermal Shutdown, Over-Voltage, Short-Circuit, and Open-String Protection
- Available in a QFN10 3x3mm Package

**AEC-Q100
Qualified**



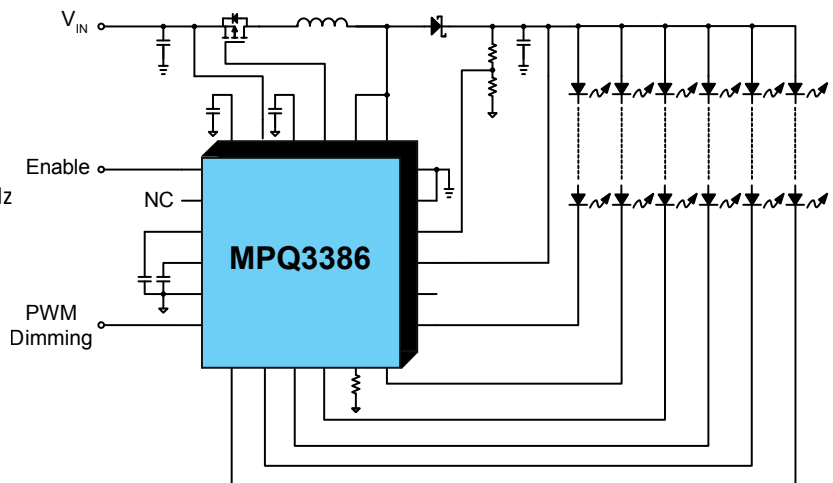
**AEC-Q100
Qualified**

MPQ3386-AEC1

55V, 6-String White LED Driver

Features

- Wide Input Voltage Range From 4.5V to 25V
- 50V Maximum Step-Up Voltage
- Balanced Driver for 6 Strings of WLED
- 3% Current Matching Accuracy between Strings
- Selectable Switching Frequency: 1.25MHz or 625kHz
- PWM or DC Input Burst PWM Dimming
- Programmable Over-Voltage Protection Threshold
- Under-Voltage Lockout
- Open and Short LED Protection
- Thermal Shutdown
- Available in a QFN24 4x4mm Package



Product Highlights

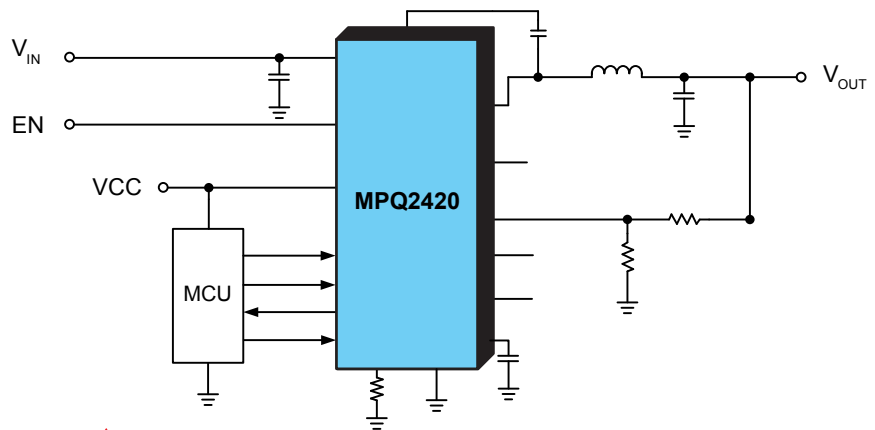
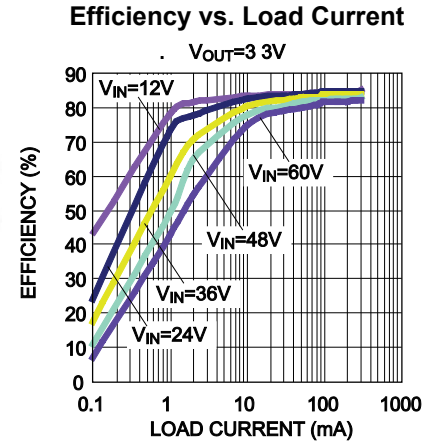
Body Electronics

MPQ2420-AEC1

75V, 0.3A, Synchronous Step-Down Converter with Watchdog

Features

- 20 μ A Quiescent Current for Buck Only
- Wide 4.5V to 75V Operating Input Range (80V ABS MAX)
- 1.2 Ω /0.45 Ω Internal Power MOSFETs
- Programmable Soft Start
- FB Tolerance: 1% at Room Temperature, 2% at Full Temperature
- Adjustable Output Voltage
- Integrated Window Watchdog
- Power-On Reset during Power-Up
- Under-Voltage Lockout and Thermal Shutdown
- Programmable Short Window Mode or Long Window Mode
- Low Shutdown Mode Current of 5 μ A
- Available in a TSSOP-16 EP Package
- Available in AEC-Q100 Grade 1

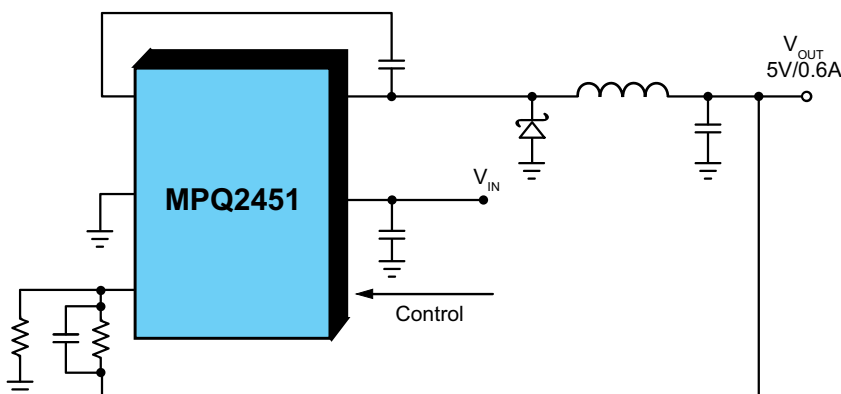
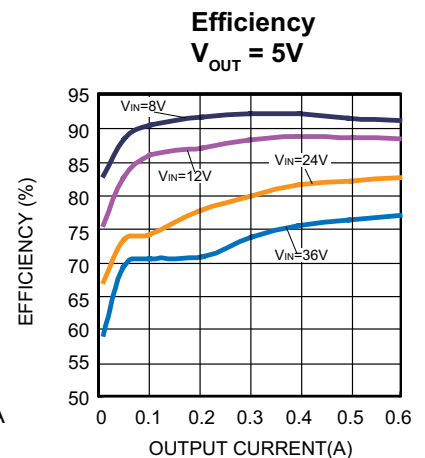


MPQ2451-AEC1

36V, 2MHz, 0.6A Step-Down Converter

Features

- 130 μ A Operating Quiescent Current
- Wide 3.3V to 36V Operating Input Range
- 2MHz Fixed Switching Frequency
- Stable with Ceramic Output Capacitors
- Internal Soft Start and Internally Compensated
- Output Adjustable from 0.8V to 0.8V_{IN}
- Available in QFN6 2x2mm and 6-Lead SOT23 and Packages



Product Highlights

General Purpose Industrial & Automotive Bucks

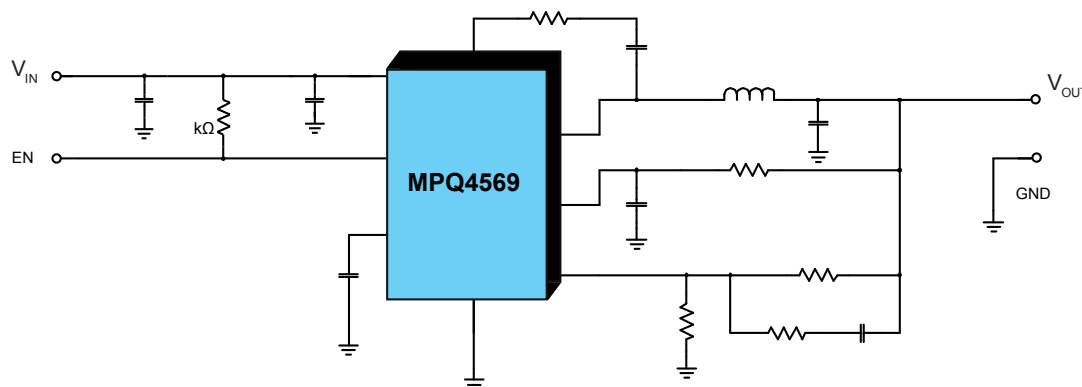
MPQ4569

75V, 0.3A Synchronous Step-Down Converter

Features

- 20 μ A Quiescent Current (Active Mode)
- Wide 4.5V to 75V Operating Input Range
- 1.2 Ω /0.5 Ω Internal Power MOSFETs
- Programmable Soft Start
- FB-Tolerance: 1% at Room Temperature
- 2% at Full Temperature
- Adjustable Output
- 1V Reference Voltage Output
- Low Shutdown Mode Current: 5 μ A
- Internal EN Pull-Up
- Available in QFN-10 3x3mm and SOIC8-EP Packages
- Available in AEC-Q100 Grade 1

**AEC-Q100
Qualified**

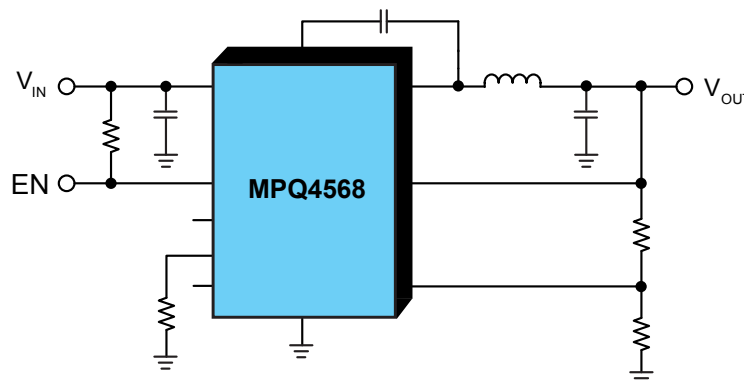


MPQ4568

60V, 100mA Low I_Q Synchronous Step-Down Converter

Features

- 20 μ A Quiescent Current
- 4.5V to 45V Input Range
- Programmable Switching frequency
- Programmable Soft Start and Peak Current Limit
- Low Shutdown Mode Current: <5 μ A
- Available in a QFN10 3x3mm Package



Product Highlights

General Purpose Industrial & Automotive Bucks

MPQ4423H

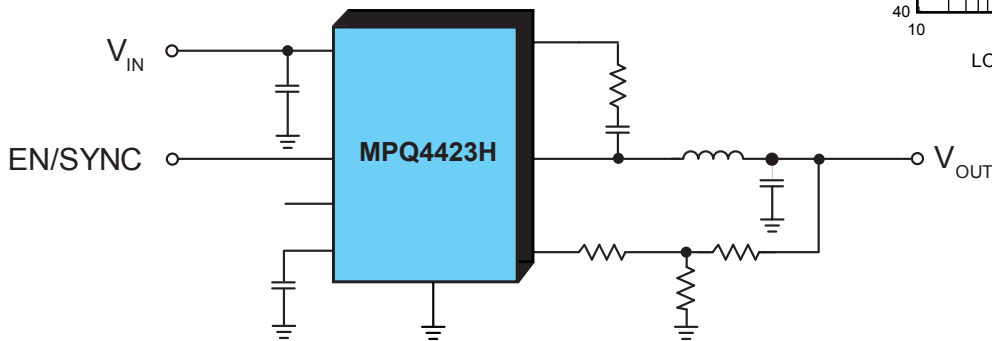
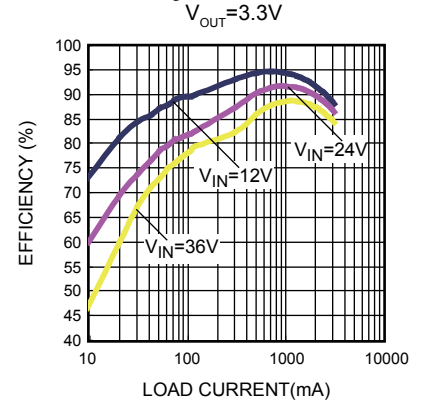
36V, 3A Synchronous Step-Down Converter with External Sync and Power Good

Features

- Wide 4V to 36V Continuous Operating Input Range
- 85mΩ/55mΩ Low Rds(on) Internal Power MOSFETs
- Default 410kHz Switching Frequency
- Synchronizes to a 200kHz to 2.2MHz External Clock
- Power-Save Mode
- Power Good and Internal Soft Start
- OCP and Hiccup
- Thermal Shutdown
- Output Adjustable from 0.8V
- Available in a QFN8 3x3mm Package



Efficiency vs. Load Current



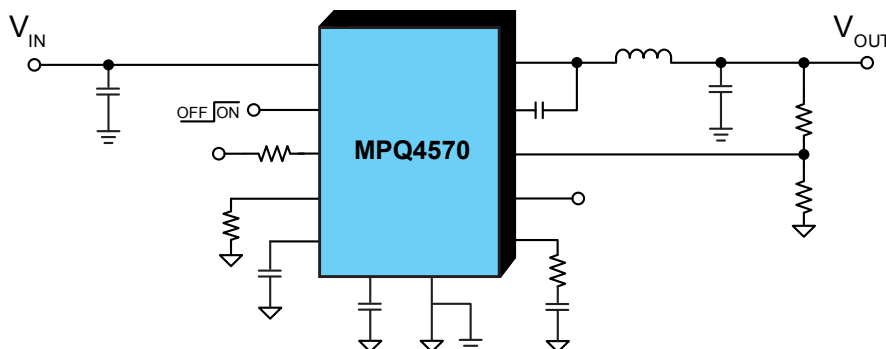
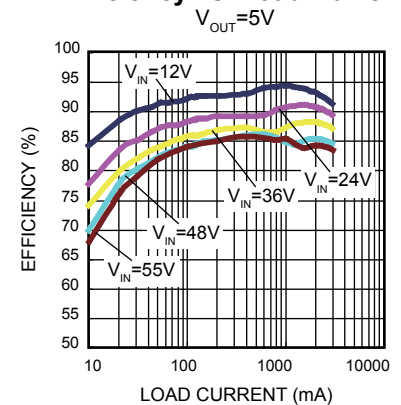
MPQ4570

55V, 3A Synchronous Step-Down Converter with Programmable Frequency

Features

- Wide Input Voltage Range: 4.5V to 55V
- 90mΩ and 70mΩ Internal High- and Low-Power MOSFETs
- Programmable Switching Frequency
- Power Good Indication and Optional External Soft Start
- OCP with Valley Current Detection
- Support External Sync Clock
- OVP
- Thermal Shutdown Protection
- Available in a TSSOP-20 EP Package

Efficiency vs. Load Current



Product Highlights

General Purpose Industrial & Automotive Bucks

MPQ4462-AEC1

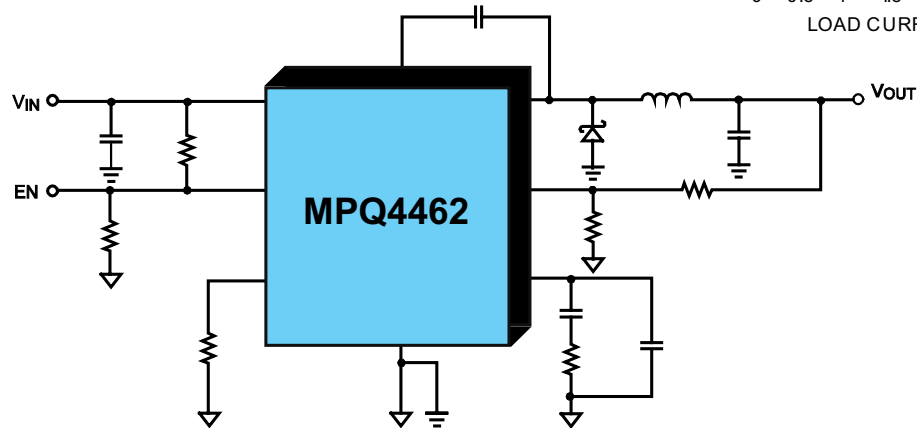
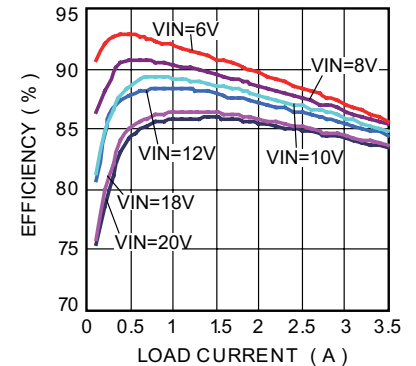
3.5A, 4MHz, 36V Step-Down Converter

**AEC-Q100
Qualified**

Features

- 120 μ A Quiescent Current
- Wide 4.5V to 36V Operating Input Range
- Up to 4MHz Programmable Switching Frequency
- Ceramic Capacitor Stable
- Internal Soft Start
- Internally Set Current Limit without Current Sensing Resistor
- Output Adjustable from 0.8V to 30V
- Available in QFN10 3x3mm and SOIC-8EP Packages

Efficiency vs Load Current



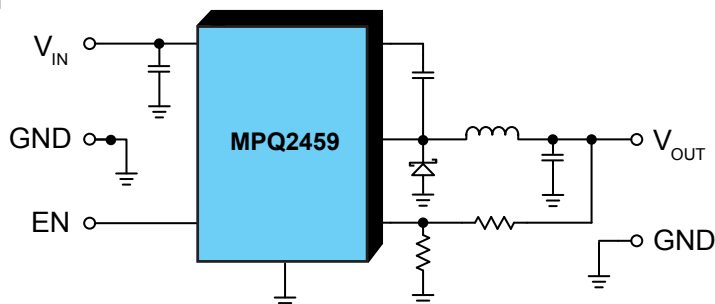
MPQ2459

55V, 0.5A, 480kHz, Step-Down Converter

**AEC-Q100
Qualified**

Features

- Wide 4.5V to 55V Input Operating Range
- 0.5A Peak Output Current
- 0.1 μ A Shutdown Mode
- Fixed 480kHz Frequency
- Thermal Shutdown
- Cycle-by-Cycle Over-Current Protection
- Available in a TSOT23-6 Package



Product Highlights

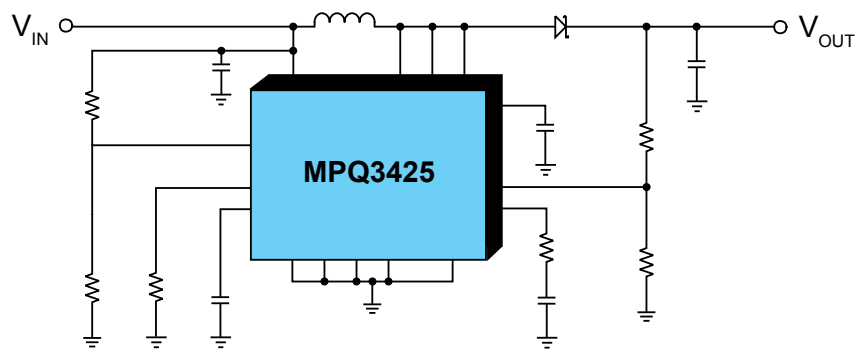
General Purpose Industrial & Automotive Boosts

MPQ3425

55V, 3A Boost Converter with Programmable Switch Frequency

Features

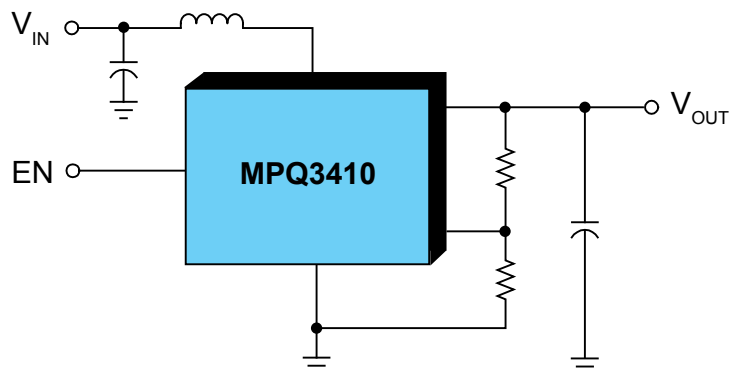
- 3.1V to 22V Input Range
- Output Voltage up to 55V
- 3.5A, 90mΩ, 55V Integrated Power FET
- Programmable UVLO and Soft Start
- Programmable Fsw: 300kHz to 2MHz
- Thermal Shutdown Protection
- Available in a QFN14 3x4mm Package
- AEC-Q100 Qualified Version Also Available


**AEC-Q100
Qualified**
**MPQ3410**

6V, 1.3A, 550kHz Synchronous Boost Converter

Features

- 1.3A Typical Switch Current Limit
- Over 90% Efficiency
- Output to Input Disconnect at Shutdown Mode
- Inrush Current Limiting and Internal Soft Start
- Internal Compensation
- 550kHz Fixed Switching Frequency
- Available in a 5-Pin TSOT-23 Package
- AEC-Q100 Qualified Version Also Available


**AEC-Q100
Qualified**


Product Highlights

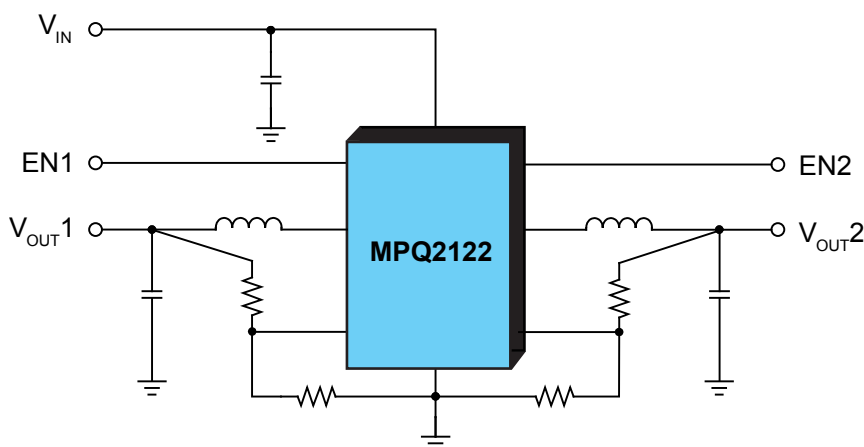
General Purpose Industrial & Automotive (Low-Voltage)

MPQ2122

Dual 2A, 6V Low Quiescent Current, Synchronous Step-Down Converter

Features

- >93% Peak Efficiency
- Wide 2.7V to 6V Operating Input Range
- 80mΩ and 35mΩ Internal Power MOSFET
- 1MHz Fixed Switching Frequency
- Adjustable Output From 0.608V to V_{IN}
- 100% Duty-Cycle Operation
- 45μA Quiescent Current
- Cycle-by-Cycle Over-Current Protection
- Short-Circuit Protection with Hiccup Mode
- Available in an 8-Pin TSOT23-8 Package

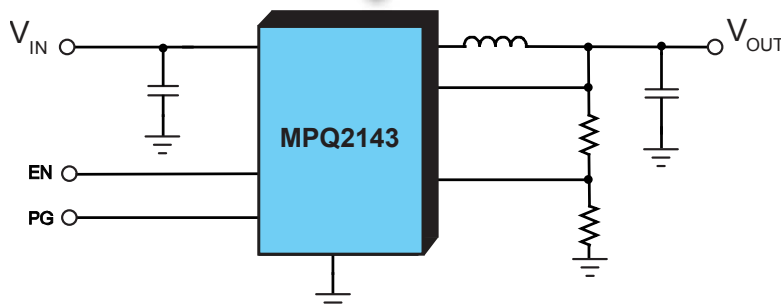


MPQ2143

3A, 5.5V, 1.2MHz, 40μA I_Q , COT, Synchronous Step-Down Switcher

Features

- Wide 2.5V to 5.5V Operating Input Range
- Output Voltage as Low as 0.6V
- 100% Duty Cycle in Dropout
- Up to 3A Output Current
- 80mΩ and 40mΩ Internal Power MOSFET Switches
- Default 1.2MHz Switching Frequency
- EN and Power Good for Power Sequencing
- Cycle-by-Cycle Over-Current Protection
- Short-Circuit Protection with Hiccup Mode
- Available in a TSOT23-8 Package



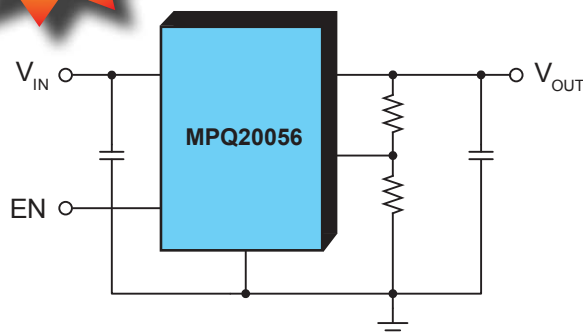
**AEC-Q100
Qualified**

MPQ20056

250mA, Low-Noise, High-PSRR, Linear Regulator

Features

- Up to 250mA Output Current
- Low 100mV Dropout at 250mA
- Low 150μA Ground Current
- Low Noise: 13μVRMS Typical (10Hz to 100kHz)
- 63dB PSRR @1kHz
- Fixed Output Voltage: 1.8V, 2.5V, and 3.3V.
- Adjustable Output Voltage from 0.8V to 5V
- Available in QFN8 2x2mm and TSOT23-5 Packages
- AEC-Q100 Qualified Version Also Available



**AEC-Q100
Qualified**

Standard Parts

REGULATORS (STEP-DOWN)

DC/DC (STEP-DOWN) SYNCHRONOUS SWITCHERS

	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (A)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Soft-Start	Ext Sync	Notes	Package
Maximum Operating Input Voltage 1.1V ≤ V_{IN} ≤ 7V											
MPQ2126	2.5	6.0	1.0	1.5	0.35	0.594	3000	Internal	-	1A, 6V, 3MHz Synchronous Buck	QFN8 (2x2)
Maximum Operating Input Voltage ≤ 28V											
MPQ2314	4.5	24	2.0	4.0	0.18	0.8	500	Internal	Yes	Industrial Grade, 2A, 24V, 500kHz with AAM (Light-Load Mode), Synchronous Step-Down Converter	TSOT23-8
MPQ2315	4.5	24	3.0	5.5	0.18	0.8	500	Internal	Yes	Industrial Grade, 3A, 24V, 500kHz with AAM (Light-Load Mode), Synchronous Step-Down Converter	TSOT23-8
Maximum Operating Input Voltage ≥ 28V											
MP4568	4.5	45	0.1	0.3	0.02	1.0	Adj.	External	-	20μA Low I _q , 60V, 100mA Synchronous Buck with External SS and Programmable Fsw	QFN10 (3x3)
MP2420	4.5	75	0.3	0.72	0.02	1.0	1000	External	Yes	75V Input with PG and Programmable Frequency	TSSOP-16 EP
MPQ2420	4.5	75	0.3	0.72	0.02	1.0	1000	External	Yes	75V Input with PG and Programmable Frequency	TSSOP-16 EP
MPM3510A	4.5	36	1.2	4.3	0.58	0.81	1150	Internal	Yes	36V Input, 1.2A I _{OUT} with Over Current Protection with Hiccup Mode	QFN3x5x1.6-19
MPM3506A	4.5	36	0.6	4.0	0.58	0.81	1150	Internal	Yes	36V Input, 0.6A I _{OUT} with Over Current Protection with Hiccup Mode	QFN3x5x1.6-19
MPQ4568	4.5	45	0.1	0.3	0.02	1.0	Adj.	External	-	Industrial Grade, 20μA Low I _q , 60V, 100mA Synchronous Buck with External SS and Programmable Fsw	QFN10 (3x3)
MP4569	4.5	75	0.3	0.7	0.02	1.0	Adj.	External	-	20μA Low I _q , 80V, 300mA Synchronous Buck with External SS and PG	QFN10 (3x3) SOIC8E
MPQ4569	4.5	75	0.3	0.7	0.02	1.0	Adj.	External	-	Industrial Grade, 20μA Low I _q , 80V, 300mA Synchronous Buck with External SS and PG	QFN10 (3x3) SOIC8E
MP4420	4	36	2.0	4.2	0.5	0.79	410	Internal	Yes	36V Input Transient Tolerance, Power Good, External Sync	TSOT23-8
MPQ4420	4	36	2.0	4.2	0.5	0.79	410	Internal	Yes	Industrial Grade, 36V Input Transient Tolerance, Power Good, External Sync	TSOT23-8
MP4420H	4	36	2.0	4.2	0.5	0.79	410	Internal	Yes	36V Continuous Input, Power Good, External Sync	TSOT23-8
MPQ4420H	4	36	2.0	4.2	0.5	0.79	410	Internal	Yes	Industrial Grade, 36V Continuous Input, Power Good, External Sync	TSOT23-8
MP2403	4.6	32	3.0	5.3	1.45	0.8	250	External	-	4.6V to 32V, 250kHz, 3A Synchronous Buck with External Comp and External SS, Consumer Grade	SOIC8E
MP4423	4	36	3.0	4.4	0.5	0.79	410	Internal	Yes	36V Input Transient Tolerance, Power Good, External Sync	QFN8 (3x3)
MPQ4423	4	36	3.0	4.4	0.5	0.79	410	Internal	Yes	Industrial Grade, 36V Input Transient Tolerance, Power Good, External Sync	QFN8 (3x3)
MP4423H	4	36	3.0	4.4	0.5	0.79	410	Internal	Yes	36V Continuous Input, Power Good, External Sync	QFN8 (3x3)
MPQ4423H	4	36	3.0	4.4	0.5	0.79	410	Internal	Yes	Industrial Grade, 36V Input Transient Tolerance, Power Good, External Sync	QFN8 (3x3)
MP4570	4.5	55	3.0	5.7	0.45	1.0	1000 (Adj.)	External	Yes	PG, External SS and Programmable Switching Frequency	TSSOP-20 EP
MPQ4570	4.5	55	3.0	5.7	0.45	1.0	1000 (Adj.)	External	Yes	Industrial Grade, PG, External SS and Programmable Switching Frequency	TSSOP-20 EP
MP4470	4.5	36	5.0	8.0	0.5	0.8	Adj.	External	-	High-Efficiency, Fast-Transient, 5A, 36V Synchronous, Step-Down Converter with OVP Latch	QFN20 (3x4)
MPQ4470	4.5	36	5.0	8.0	0.5	0.8	Adj.	External	-	Industrial Grade, Fast-Transient, 5A, 36V Synchronous, Step-Down Converter with OVP Latch	QFN20 (3x4)
MP4470A	4.5	36	5.0	8.0	0.5	0.8	Adj.	External	-	High-Efficiency, Fast-Transient, 5A, 36V Synchronous, Step-Down Converter without OVP Latch	QFN20 (3x4)
MPQ4470A	4.5	36	5.0	8.0	0.5	0.8	Adj.	External	-	Industrial Grade, Fast-Transient, 5A, 36V Synchronous, Step-Down Converter without OVP Latch	QFN20 (3x4)

DC/DC (STEP-DOWN) NON-SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (A)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Soft-Start	Ext Sync	Notes	Package
Maximum Operating Input Voltage ≤ 28V											
MPQ2362	4.75	23	2.0	3.4	2	1.2	380	Internal	Yes	Industrial Grade, Dual 2A, 23V, 380kHz Step-Down Converter with Frequency Synchronization	TSSOP-20F
Maximum Operating Input Voltage ≥ 28V											
MP2456	4.5	50	0.5	1.25	0.73	0.8	1200	Internal	-	55V Max V _{IN} , 1.2MHz, Internal SS	TSOT23-6
MP2459	4.5	55	0.5	1.25	0.73	0.8	480	Internal	-	55V Max V _{IN} , 480kHz, Internal SS	TSOT23-6
MPQ2459	4.5	55	0.5	1.25	0.73	0.8	480	Internal	-	Industrial Grade, 55V Max V _{IN} , 480kHz, Internal SS	TSOT23-6
MP2451	3.3	36	0.6	0.85	0.23	0.8	2000	Internal	-	Internal Comp and SS, Programmable, Consumer Grade	SOT23-6L
MPQ2451	3.3	36	0.6	0.85	0.23	0.8	2000	Internal	-	Internal Comp and SS, Programmable	SOT23-6L
MP2454	3.3	36	0.6	1.80	0.06	0.8	2200 (Adj.)	External	Yes	60uA Low I _q , External SS and PG, Programmable Fsw	QFN10 (3x3) MSOP-10 EP
MPQ2454	3.3	36	0.6	1.80	0.06	0.8	2200 (Adj.)	External	Yes	Industrial Grade, 60uA Low I _q , External SS and PG, Programmable Fsw	QFN10 (3x3) MSOP-10 EP

Standard Parts

REGULATORS (STEP-DOWN)

DC/DC (STEP-DOWN) NON-SYNCHRONOUS SWITCHERS (Continue)

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (A)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Soft-Start	Ext Sync	Notes	Package
Maximum Operating Input Voltage ≥ 28V (Continue)											
MP4566	4.5	36	0.6	1.20	0.035	1.0	1000	Internal	-	High-Efficiency, High-Voltage, COT, Buck, Ultra-Low Quiescent Current , Functionally Compatible to LT3470A, Consumer Grade	QFN8 (2x3)
MP4458	4.5	36	1.0	1.8	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz, Consumer Grade	TQFN10 (3x3)
MPQ4458	4.5	36	1.0	1.8	0.1	0.8	4001 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz	TQFN10 (3x3)
MP2452	3.3	36	1.0	1.5	0.13	0.8	1000	Internal	-	High-Voltage Buck with Few External Components, Output Adjustable from 0.794V to 33V, Consumer Grade	QFN8 (2x3)
MP2562	4.5	50	1.0	1.8	0.12	0.8	4000	Internal	-	High Switching Frequency, Current Limit, Output Adj From 0.8V to 47V, Consumer Grade	QFN10 (3x3) SOIC8
MP4558	4.5	55	1.0	3.2	0.1	0.8	2000 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency, Consumer Grade	QFN10 (3x3) SOIC8E
MPQ4558	4.5	55	1.0	3.2	0.1	0.8	2001 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency	QFN10 (3x3) SOIC8E
MP4459	4.5	36	1.5	2.5	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz, Consumer Grade	TQFN10 (3x3)
MPQ4459	4.5	36	1.5	2.5	0.1	0.8	4001 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz	TQFN10 (3x3)
MP4559	4.5	55	1.5	3.2	0.1	0.8	2000 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency, Consumer Grade	QFN10 (3x3) SOIC8E
MPQ4559	4.5	55	1.5	3.2	0.1	0.8	2001 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency.	QFN10 (3x3) SOIC8E
MP4561	4.5	55	1.5	2.5	0.12	0.80	2000 (Adj.)	External	-	55V Max V _{IN} , Superior Light-Load Efficiency, External SS, Consumer Grade	QFN10 (3x3)
MPQ4561	4.5	55	1.5	2.5	0.12	0.80	2001 (Adj.)	External	-	55V Max V _{IN} , Superior Light-Load Efficiency, External SS.	QFN10 (3x3)
MP2490	4.5	36	1.5	2.6	0.5	0.81	700	External	-	Programmable Current Limit, Consumer Grade	QFN10 (3x3) SOIC, PDIP8
MPQ2490	4.5	36	1.5	2.6	0.5	0.81	700	External	-	Programmable Current Limit, Consumer Grade	QFN10 (3x3) SOIC, PDIP8
MP2493	4.5	36	2.0	3.0	0.5	0.8	130	External	-	Adj. Output from 0.8V to 15V, Internal Comp, Programmable Output Current Limit	SOIC8E SOIC8
MP2492	4.5	55	2.0	3.5	0.5	0.80	100	External	-	55V, 2A, 100kHz, Programmable Output Current Limit	QFN10 (3x3) SOIC8E
MP2494	4.5	55	2.0	3.5	0.5	0.8	100	External	-	55V, 2A, 100kHz	SOIC8E SOIC8
MP4560	4.5	55	2.0	3.2	0.1	0.8	2000 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency, Consumer Grade.	QFN10 (3x3) SOIC8E
MPQ4560	4.5	55	2.0	3.2	0.1	0.8	2001 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency.	QFN10 (3x3) SOIC8E
MP2498	5	24	2.0	3.2	0.12	0.80	150-2000	Internal	-	100V Integrated Load-Dump Protection, Programmable Switching Frequency	QFN28
MP2560	4.5	42	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz, External Comp.	QFN10 (3x3) SOIC8E
MP4460	4.5	36	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz, Consumer Grade	QFN10 (3x3)
MPQ4460	4.5	36	2.5	3.5	0.1	0.8	4001 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz	QFN10 (3x3)
MP2467	6.0	36	2.5	3.5	0.1	0.8	500	Internal	-	High-Voltage Input, Light-Load Efficiency	SOIC8E
MP2565	4.5	50	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz	QFN10 (3x3) SOIC8E
MP2372	4.75	28	3.0	6.5	1.3	0.92	925	External	-	925kHz, External SS, External Comp	SOIC8E
MP4462	4.5	36	3.5	4.7	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz, Consumer Grade	QFN10 (3x3) SOIC8E
MPQ4462	4.5	36	3.5	4.7	0.1	0.8	4000 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz	QFN10 (3x3) SOIC8E

REGULATORS (STEP-UP)

DC/DC (STEP-UP) SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	V _{OUT} (Max) (V)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Sync	Notes	Package
MPQ3410	1.8	6	6.0	1.3	0.36	1.2	550	✓	Output Disconnect	TSOT23-5

Standard Parts

REGULATORS (STEP-UP)

DC/DC (STEP-UP) NON-SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	V _{OUT} (Max) (V)	I _{SW} Limit (Typ) (A)	I _Q (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Sync	Notes	Package
MPQ1530	2.7	55	22.0	3.6	1.3	1.3	1400	-	Triple Output Charge Pump and LDO for TFT Bias	QFN16 (3x3) TSSOP16
MPQ3425	3.1	22	55	5.0	0.65	1.25	2000 (Adj.)	-	Fsw Adjustable from 300kHz to 2MHz, Programmable UVLO and EN Hysteresis	QFN14(3x4)
MPQ3426	3.2	22	35	8.5	0.65	1.25	2000 (Adj.)	-	Fsw Adjustable from 300kHz to 2MHz, Programmable UVLO and EN Hysteresis	QFN14(3x4)

LINEAR REGULATORS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (mA)	Load Reg (%/mA)	PSRR @1kHz (dB)	V _{FB} (V)	Dropout Voltage (mV)	V _{OUT} (V)	Notes	Package
MPQ2016	4	42	30	0.003	50	1.23	700 (IO: 30mA)	Adj. 1.2V to 20V	Ideal for Automotive	QFN8 (2x3) TSOT23-5
MPQ8903	2.7	6.5	150	0.001	50	1.22	150 (IO: 150mA)	Adj., Available Fixed Options: 2.5V, 2.85V and 3.3V	Low Cost, Small QFN 2x2mm Option	QFN8 (2x2) TSOT235
MP2013 MP2013A	2.5	40	150	0.003	41	1.215	620 (IO: 500mA)	Fixed and Adj. 1.215V to 15V Industrial Grade	3.2µA Ultra-Low Quiescent Current, MP2013 without EN Function, MP2013A with EN Function	TSOT23-5 QFN6 (2x2) QFN8 (3x3)
MPQ2013 MPQ2013A	2.5	40	150	0.003	41	1.215	620 (IO: 500mA)	Fixed and Adj. 1.215V to 15V Industrial Grade	Industrial Grade, 3.2µA Ultra-Low Quiescent Current, MPQ2013 without EN Function, MPQ2013A with EN Function	TSOT23-5 QFN6 (2x2) QFN8 (3x3)
MPQ20056	2.5	5.5	250	0.0003	63	0.8	100 (IO: 250mA)	Fixed, 1.8V 2.5V 3.3V Adj. 0.8V to 5V	Available in AEC-Q100 and Industrial Grade	QFN8 (2x2) TSOT23-5
MPQ8904	2.5	6.5	500	0.001	26	0.496	300 (IO: 500mA)	Adj. 0.5V to 5.0V	Power Good Output, Available in AEC-Q100 and Industrial Grade	QFN8 (2x3)
MPQ20051	2.5	5.5	1000	0.0003	63	0.8	140 (IO: 1000mA)	Adj. 0.8V to 5.0V	Available in AEC-Q100 and Industrial Grade	QFN8 (3x3)

TRANSFORMER BASED POWER SUPPLIES

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	P _{OUT} (W)	I _{SW} Limit (Typ) (A)	Topology	I _Q (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Notes	Package
MP6001	4.5	100	15W (Max)	2.0	Flyback/Forward	-	-	55 - 550	15W, Integrated 150V Power Switch	SOIC8E
MP6003	4.5	120	15W (Max)	-	Flyback/SEPIC	-	1.2	60 - 550	15W, Integrated 150V Power Switch	SOIC8E

SUPERVISORY CIRCUITS / VOLTAGE SUPERVISORS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Reset Thres (V)	Threshold Acc (%)	Reset Delay Time (ms)	I _Q (Typ) (µA)	Notes	Package
MPQ6400	1.8	6	93% V _{SENSE}	±1.0	Adjustable: 2.1 to 10000	1.6	Low Iq, Programmable Delay Supervisor	TSOT23-6 QFN6
MPQ2420	4.5	75	-	4.3	-	0.2	Adjustable Output Voltage, Integrated Window Watchdog Programmable Short Window Mode or Long Window Mode	TSSOP-16 EP

WLED & LIGHTING ILLUMINATION

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	V _{OUT} (Max) (V)	# of Channels	Current Limit (Typ) (A)	V _{FB} (V)	Switching Freq (kHz)	Open LED Protection	Type	Notes	Package
MPQ3386	4.5	25	50	6	-	-	625 or 1250	✓	Boost	6 String White LED Driver for Backlighting	QFN24 (4x4)
MPQ2483	4.5	55	-	1	3	0.198	1350 Prog	✓	Buck, Buck-Boost	2.5A LED Driver	QFN10 (3x3) SOIC14
MPQ2489	6	60	-	1	-	0.2	300 to 600	✓	Low-Side Buck	Hysteretic, Low-Side Buck for Minimal External Component & Fast Transient Response	QFN6 (3x3)

AUDIO PRODUCTS (CLASS-D AUDIO AMPLIFIERS)

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	P _{OUT} (W)	Efficiency (%)	THD+N (%)	PSRR (dB)	Type	Notes	Package
MPQ7731	9.5	18	30	90	0.10 @ 1W	60	Mono	30W Class-D Mono Amplifier	TSSOP20F

HALF-BRIDGE & FULL-BRIDGE POWER DRIVERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Boot Strap Supp (Max) (V)	Peak Pull-Up Current (A)	Peak Pull-Down Current (A)	Rise Time (ns)	Fall Time (ns)	Turn Off/On Delay (ns)	Notes	Package
MPQ18021A	9	18	100	1.5	2.5	12	9	16	100V, 2.5A, High-Frequency, Half-Bridge Gate Driver	SOIC8E
MPQ8039	7.5	25	5	9	9	20	20	70	9A, 25V Integrated Half-Bridge and Driver	SOIC8E

AEC-Q100 Parts

REGULATORS (STEP-DOWN)

DC/DC (STEP-DOWN) SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (A)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Soft-Start	Ext Sync	Notes	Package
Maximum Operating Input Voltage 1.1V ≤ V_{IN} ≤ 7V											
MPQ2143-AEC1	2.5	5.5	3.0	4.8	0.04	0.6	1200	Internal	-	3A, 5.5V, 1.2MHz, 40uAIQ, COT Synchronous Buck	TSOT23-8
Maximum Operating Input Voltage ≥ 28V											
MPQ4420-AEC1	4	36	2.0	4.2	0.5	0.79	410	Internal	Yes	36V Input Transient Tolerance, Power Good, External Sync	TSOT23-8
MPQ2420-AEC1	4.5	75	0.3	0.72	0.02	1.0	1000	External	Yes	75V Input with PG and Programmable Frequency	TSSOP-16 EP
MPQ4569-AEC1	4.5	75	0.3	0.72	0.02	1.0	1000	External	Yes	75V input Sync Rectification Power Good	QFN3x3-10 SOIC8E
MPM3510A-AEC1	4.5	36	1.2	4.3	0.58	0.81	1150	Internal	Yes	36V Input, 1.2A I _{OUT} with Over Current Protection with Hiccup Mode	QFN3x5x1.6-19
MPM3506A-AEC1	4.5	36	0.6	4.0	0.58	0.81	1150	Internal	Yes	36V Input, 0.6A I _{OUT} with Over Current Protection with Hiccup Mode	QFN3x5x1.6-19
MPQ4423-AEC1	4	36	3.0	4.4	0.5	0.79	410	Internal	Yes	36V Input Transient Tolerance, Power Good, External Sync	QFN8 (3x3)
MPQ4473-AEC1	4.5	36	3.5	5.6	0.5	0.8	Adj.	External	-	Fast-Transient, 3.5A, 36V Synchronous, Step-Down Converter without OVP	QFN20 (3x4)
MPQ4470-AEC1	4.5	36	5.0	8.0	0.5	0.8	Adj.	External	-	Fast-Transient, 5A, 36V Synchronous, Step-Down Converter with OVP Latch	QFN20 (3x4)
MPQ4470A-AEC1	4.5	36	5.0	8.0	0.5	0.8	Adj.	External	-	Fast-Transient, 5A, 36V Synchronous, Step-Down Converter without OVP Latch	QFN20 (3x4)

DC/DC (STEP-DOWN) NON-SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (A)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Soft-Start	Ext Sync	Notes	Package
Maximum Operating Input Voltage ≤ 28V											
MPQ2362-AEC1	4.75	23	2.0	3.4	2	1.2	380	Internal	Yes	Dual, 2A, 23V, 380kHz Step-Down Converter with Frequency Synchronization	TSSOP-20F
Maximum Operating Input Voltage ≥ 28V											
MPQ2459-AEC1	4.5	55	0.5	1.25	0.73	0.8	480	Internal	-	55V Max V _{IN} , Internal SS	TSOT23-6
MPQ2451-AEC1	3.3	36	0.6	0.85	0.23	0.8	2000	Internal	-	Internal Comp and SS, Programmable	SOT23-6L
MPQ2454-AEC1	3.3	36	0.6	1.80	0.06	0.8	2200 (Adj.)	External	Yes	60uA Low I _q , External SS and PG, Programmable Fsw	QFN10 (3x3)
MPQ4558-AEC1	4.5	55	1.0	3.2	0.1	0.8	2002 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency	QFN10 (3x3)
MPQ4559-AEC1	4.5	55	1.5	3.2	0.1	0.8	2002 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency	QFN10 (3x3)
MPQ4561-AEC1	4.5	55	1.5	2.5	0.1	0.8	2002 (Adj.)	External	-	55V Max V _{IN} , Superior Light-Load Efficiency, External SS	QFN10 (3x3)
MPQ4560-AEC1	4.5	55	2.0	3.2	0.1	0.8	2002 (Adj.)	Internal	-	55V Max V _{IN} , Superior Light-Load Efficiency	QFN10 (3x3) SOIC8E
MPQ4462-AEC1	4.5	36	3.5	4.7	0.1	0.8	4002 (Adj.)	Internal	-	Light-Load Efficiency, Frequency Programmable up to 4MHz	QFN10 (3x3) SOIC8E

REGULATORS (STEP-UP)

DC/DC (STEP-UP) SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	V _{OUT} (Max) (V)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Sync	Notes	Package
MPQ3410-AEC1	1.8	6	6.0	1.3	0.36	1.2	550	✓	Output Disconnect	TSOT23-5

DC/DC (STEP-UP) NON-SYNCHRONOUS SWITCHERS

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	V _{OUT} (Max) (V)	I _{SW} Limit (Typ) (A)	I _O (Typ) (mA)	V _{FB} (V)	Switching Freq (kHz)	Sync	Notes	Package
MPQ1530-AEC1	2.7	55	22.0	3.6	1.3	1.3	1400	-	Triple Output Charge Pump and LDO for TFT Bias	QFN16 (3x3)
MPQ3425-AEC1	3.1	22	55	5.0	0.65	1.25	2000 (Adj.)	-	Fsw Adjustable from 300kHz to 2MHz, Programmable UVLO and EN Hysteresis	QFN14 (3x4)
MPQ3426-AEC1	3.2	22	35	8.5	0.65	1.25	2000 (Adj.)	-	Fsw Adjustable from 300kHz to 2MHz, Programmable UVLO and EN Hysteresis	QFN14(3x4)

AEC-Q100 Parts

LINEAR REGULATORS											
Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	I _{OUT} (mA)	Load Reg (%/mA)	PSRR @1kHz (dB)	V _{FB} (V)	Dropout Voltage (mV)	V _{OUT} (V)	Notes	Package	
MPQ2016-AEC1	4	42	30	0.003	50	1.23	700 (IO: 30mA)	Adj. 1.2V to 20V	42V Input Voltage, Ideal for Automotive	QFN8 (2x3)	
MPQ2013-AEC1 MPQ2013A-AEC1	2.5	40	150	0.003	41	1.215	620 (IO: 500mA)	Fixed and Adj. 1.215V to 15V Industrial Grade	Industrial Grade, 3.2µA Ultra-Low Quiescent Current MPQ2013 Without EN Function, MPQ2013A with EN function	TSOT23-5 QFN6 (2x2) QFN8 (3x3)	
MPQ20056-AEC1	2.5	5.5	250	0.0003	63	0.8	100 (IO: 250mA)	Fixed. 1.8V 2.5V 3.3V Adj. 0.8V to 5V	Available in Fixed 1.8V, 2.5V and 3.3V Output Voltage	QFN8 (2x2) TSOT23-5	
MPQ8904-AEC1	2.7	6.5	500	0.001	26	0.496	300 (IO: 150mA)	Adj. 0.5V to 5.0V	Low Cost, Small QFN 2x2mm Option	QFN8 (2x3)	
MPQ20051-AEC1	2.5	5.5	1000	0.0003	63	0.8	140 (IO: 1000mA)	Adj. 0.8V to 5.0V	1A Output Current, Adjustable Output Voltage	QFN8 (3x3)	
SUPERVISORY CIRCUITS / VOLTAGE SUPERVISORS											
Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Reset Thres (V)	Threshold Acc (%)	Reset Delay Time (ms)		I _O (Typ) (µA)	Notes		Package	
MPQ6400-33-AEC1	1.8	6	93% V _{SENSE}	±1.0	Adjustable: 2.1 to 10001		1.6	Fix 3.3V, Low Iq, Programmable Delay Supervisor		QFN6 (2x2)	
MPQ2420-AEC1	4.5	75	-	4.3	-		0.02	Adjustable Output Voltage, Integrated Window Watchdog, Programmable Short Window Mode or Long Window Mode		TSSOP-16 EP	
WLED & LIGHTING ILLUMINATION											
Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	V _{OUT} (Max) (V)	# of Channels	Current Limit (Typ) (A)	V _{FB} (V)	Switching Freq (kHz)	Open LED Protection	Type	Notes	Package
MPQ3386-AEC1	4.5	25	50	6	-	-	625 or 1250	✓	Boost	6 String White LED Driver for Backlighting	QFN24 (4x4)
MPQ2483A-AEC1	4.5	55	-	1	3	0.198	1350 Prog.	✓	Buck, Buck-Boost	2.5A LED Driver	QFN10 (3x3)
MPQ2489-AEC1	6	60	-	1	-	0.2	300 to 600	✓	Low-Side Buck	Hysteretic, Low-Side Buck for Minimal External Component and Fast Transient Response	QFN6 (3x3)
AUDIO PRODUCTS (CLASS-D AUDIO AMPLIFIERS)											
Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	P _{OUT} (W)	Efficiency (%)	THD+N (%)		PSRR (dB)	Type		Notes	Package
MPQ7731-AEC3	9.5	18	30	90	0.10 @ 1W		60	Mono		30W Class-D Mono Amplifier	TSSOP20F
HALF-BRIDGE & FULL-BRIDGE POWER DRIVERS											
Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	Boot Strap Supp (Max) (V)		Peak Pull-Up Current (A)	Peak Pull-Down Current (A)	Rise Time (ns)	Fall Time (ns)	Turn Off/On Delay (ns)	Notes	Package
MPQ8039-AEC1	7.5	25	5		9	9	20	20	70	9A, 25V Integrated Half-Bridge and Driver	SOIC8E

MPQ and AEC-Q100 Products

Monolithic Power Systems (MPS) understands that certain applications require the highest quality possible and offers its MPQ and AEC-Q100 products to address this need. In addition to our Standard Product 6 sigma product characterization tests, MPS ensures that all MPQ parts will meet over-temperature specifications. Furthermore, all MPS AEC-Q100 Grade products are in compliance with AEC-Q100 procedures and protocol.

About Monolithic Power Systems

Who we are:

We are creative thinkers. We break boundaries. We take technology to new levels. As a leading international semiconductor company, Monolithic Power Systems (MPS) creates cutting-edge solutions to improve the quality of life with green, easy-to-use products.

What we do:

We make power design fun! With our innovative proprietary technology processes, we thrive on re-imagining and re-defining the possibilities of high-performance power solutions in industrial applications, telecom infrastructures, cloud computing, automotive, and consumer applications.

Where we come from:

It started with a vision. Michael Hsing, pioneering engineer and CEO, founded Monolithic Power Systems, Inc. in 1997 with the belief that an entire power system could be integrated onto a single chip. Under his leadership, MPS has succeeded not only in developing a monolithic power module that truly integrates an entire power system in a single package, but also it continues to defy industry expectations with its patented groundbreaking technologies.

Our values:

We cultivate creativity.

As a company we believe in creating an environment that encourages and challenges our employees to collaborate and think outside the box to excel beyond their preconceived capabilities.

We do not accept the status quo.

We do not believe in limitations. It is not about what is, but what can be. Possibilities are endless at MPS.

We are passionate about sustainability.

It's about the future. From materials to finances, we are committed to conservation. We will not tolerate waste in an effort to improve and preserve the quality of life.

We are committed to providing innovative products to our customers.

Let us do the heavy lifting. We strive relentlessly to make system design versatile and effortless to meet our customers' specific needs. We'll do the work, so our customers can have the fun!

MPS US Corporate Headquarters



San Jose, CA USA



- Production, Test, QA, and R&D Center
- 250K Ft² (>23K m²) Facility
- ISO9001:2000 Certified
- MPS Ship Capacity
 - >200M+ Units/Month in 2011



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