



REGULATORS

SYNCHRONOUS STEP-DOWN (BUCK)

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	Load Current (A)	I <sub>sw</sub> Limit (Typ) (A)	I <sub>o</sub> (Typ) (mA)	Feedback Voltage (V)	Switching Frequency (kHz)	Soft Start	Ext Sync	Notes	Package
<b>Maximum Operating Input Voltage 1.1V ≤ Vin ≤ 6V</b>											
MP2104	2.5	6.0	0.6	1.0	0.4	0.6	1700	Internal		Internal Comp	TSOT23-5
MP2105	2.5	6.0	0.8	1.6	0.4	0.6	1000	Internal		Internal Comp	TSOT23-5
MP2109	2.5	6.0	0.8 (2x)	1.3	0.4	0.6	1240	Internal		Dual Output	QFN10 (3x3)
MP28117	2.5	6.0	0.8 (2x)	1.3	0.4	0.6	1240	Internal		Dual Output	QFN10 (3x3)
MP2102	2.5	6.0	0.8 (2x)	1.5	0.75	0.6	1500	Internal		Dual Output w/ Power Good	QFN10 (3x3) MSOP10
MP2101	2.5	6.0	0.8 & 0.2	1.4	0.4	0.6	1600	Internal		Step Down + LDO	QFN10 (3x3)
MP2112	2.5	6.0	1.0	1.6	0.44	0.6	1050	Internal		Internal Comp	QFN6 (3x3)
MP1567	2.6	6.0	1.2	2.0	1.2	0.9	800	External		External Comp	MSOP10 QFN10 (3x3)
MP2119	2.7	5.5	2.0	3.5	0.75	0.8	1500	Internal	✓		QFN10(3x3)
MP2108	2.6	6.0	2.0	3.5	1.2	0.9	740	External		External Comp	MSOP10 QFN10 (3x3)
MP2120	2.7	5.5	2.5	4.5	0.75	0.8	1500	Internal	✓	Power Good Output	QFN10 (3x3)
MP28128	2.7	6.0	2.5	4.5	0.75	0.8	1500	Internal	✓	Power Good Output	QFN10 (3x3)
MP2121	2.7	6.0	3.0	4.5	0.75	0.8	1500	Internal	✓	Power Good Output	QFN10 (3x3)
MP38115	1.1	5.5	4.0	6.5	0.75	0.8	1500	Internal	✓	Power Good Output	QFN10(3x3)
MP28115	2.7	6.0	4.0	6.5	0.75	0.8	1500	Internal	✓	Power Good Output	QFN10(3x3)
<b>Maximum Operating Input Voltage ≤ 28V</b>											
MP2309	4.75	23	1.0	2.0	1.3	0.92	340	External		External Comp	SOIC8
MP2106	2.6	15	1.5	2.5	1.2	0.9	800	External		External Comp	MSOP10 QFN10 (3x3)
MP2305	4.75	23	2.0	3.4	1.3	0.92	340	External		External Comp	SOIC8
MP2205	3.0	16	2.5	4.0	0.75	0.8	1300	Internal	✓	Power Good Output	QFN14 (3x4)
MP38870	4.5	14	3.0	4.0 (Min)	0.9	0.8	600	Internal	✓	Power Good Output	QFN14 (3x4)
MP2212	3.0	16	3.0	6.0	0.75	0.8	600	Internal	✓		QFN10 (3x3) SOIC8E
MP2307	4.75	23	3.0	5.8	1.3	0.92	340	External		External Comp	SOIC8E
MP2303	4.75	28	3.0	6.3	1.3	0.8	340	External		External Comp	QFN10 (3x3) SOIC8E
MP2207	3.0	16	4.0	6.5	0.75	0.8	1300	Internal	✓		QFN10 (3x3) SOIC8E
MP2208	3.0	16	4.0	6.0	0.75	0.8	600	External	✓	Power Good Output	QFN14(3x4)
MP2214	3.0	16	4.0	7.5	0.75	0.8	600	Internal	✓	Power Good Output	QFN14 (3x4) SOIC8E
MP38872	4.5	21	6.0	8.0	0.9	0.81	600	Internal	✓	45mΩ Integrated Top Side FET with Bottom FET Driver and Power Good	QFN14 (3x4)
MP38874	4.5	21	8.0	9.5 (Min)	1.1 (Max)	0.81	600	Internal	✓	42mΩ Integrated Top Side FET w/ Bottom FET Driver and Power Good	QFN14 (3x4)
MP38671	4.5	25	10	12	1.1 (Max)	0.81	600	Internal	✓	Power Good Output, LS Sync Gate Driver	QFN14 (3x4)
MP38873	4.5	14	15	21	1.2 (Max)	0.81	400	External	✓	18mΩ Integrated Top Side FET w/ Bottom FET Driver, PG, Freq Tracking, Sync Out + Phase Shift	QFN14 (3x4)
<b>Maximum Operating Input Voltage &gt; 28V</b>											
MP2403	4.6	32	3.0	5.3	1.45	0.8	250	External		External Comp	SOIC8E
MP38894	4.5	42	4.5	6.5	0.9	0.8	420	Internal	✓	Integrated High Side FET w/ LS Sync Gate Driver	SOIC8E
MP38891	4.5	30	6.0	8.0	0.9	0.8	420	Internal	✓	Integrated High Side FET w/ LS Sync Gate Driver	QFN14 (3x4)
MP38892	4.5	42	6.0	8.0	0.9	0.8	420	Internal	✓	Integrated High Side FET w/ LS Sync Gate Driver	SOIC8E



**NON-SYNCHRONOUS STEP-DOWN (BUCK)**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	Load Current (A)	I <sub>sw</sub> Limit (Typ) (A)	I <sub>o</sub> (Typ) (mA)	Feedback Voltage (V)	Switching Frequency (kHz)	Soft Start	Ext Sync	Notes	Package
<b>Maximum Operating Input Voltage ≤ 24V</b>											
MP2357	4.5	24	0.5	0.8	0.8	0.81	1400	Internal		Internal Comp	SOT23-6 TSOT23-6
MP2359	4.5	24	1.2	1.8	0.8	0.81	1400	Internal		Internal Comp	SOT23-6 TSOT23-6
MP2351	4.75	23	1.5	2.8	1.1	1.23	1400	Internal	√	External Comp, Frequency Sync	MSOP10 QFN10 (3x3)
MP28372	4.75	23	1.5	3.0	2.4	0.92	1400	External		External Comp, Dual Output	SOIC16 TSSOP20F
MP2364	4.75	23	1.5 (2x)	3.0	2.4	0.92	1400	External		External Comp, Dual Output	TSSOP20F
MP2360	4.5	24	1.8	2.5	0.8	0.81	1400	Internal		Ultra-Small	QFN8 (2x2)
MP2371	4.5	24	1.8	2.5	0.8	0.81	700	Internal		Internal Comp	QFN8 (2x2)
MP2270	4.5	8.0	1.8	2.5	0.8	0.81	700	Internal		Internal Comp	MSOP10E
MP2358	4.75	23	2.0	3.4	1.1	0.92	370	External		External Comp	QFN10 (3x3) SOIC8
MP2361	4.75	23	2.0	3.5	1.2	0.92	1400	External		External Comp	MSOP10 QFN10 (3x3)
MP2354	4.75	23	2.0	3.4	1.0	1.22	380	Internal	√	External Comp	SOIC8
MP2362	4.75	23	2.0 (2x)	3.4	2	1.22	380	Internal		Dual Output	TSSOP20F
MP4350	4.5	20	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal		External Comp, Resistor Programmable up to 4MHz	QFN10 (3x3)
MP2377	4.5	21	3.0	4.0 (Min)	0.9	0.81	600	Internal	√	Power Good and Latch Off at Fault	SOIC8E
MP2355	4.75	23	3.0	4.3	1.0	1.22	380	External		External Comp	SOIC8E
MP2363	4.75	27	3.0	5.7	1.0	0.92	365	External		External Comp	SOIC8E PDIP8
MP2380	4.5	21	5.0	7.3	0.9	0.81	600	Internal	√	Power Good	SOIC8E
<b>Maximum Operating Input Voltage ≥ 28V</b>											
MP2451	3.3	36	0.6	0.85	0.23	0.8	2000	Internal		Int Comp & SS, Prec	SOT23-6L
MP4458	4.5	36	1.0	1.8	0.1	0.8	4000 (Adj.)	Internal		Resistor Programmable up to 4MHz	TQFN10 (3X3)
MP4459	4.5	36	1.5	2.5	0.1	0.8	4000 (Adj.)	Internal		Resistor Programmable up to 4MHz	TQFN10 (3X3)
MP2490	4.5	36	1.5	2.6	0.5	0.81	700	External		Programmable Current Limit	QFN10 (3x3) SOIC & PDIP8
MP1591	6.5	32	2.0	3.6	1.0	1.23	330			External Comp	SOIC8 SOIC8E
MP2560	4.5	42	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal		External Comp, Resistor Programmable up to 4MHz	QFN10 (3x3) SOIC8E
MP4460	4.5	36	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal		Resistor Programmable up to 4MHz	QFN10 (3x3)
MP2467	6.0	36	2.5	3.5	0.1	0.8	500	Internal		High Voltage	SOIC8E
MP2565	4.5	50	2.5	3.5	0.1	0.8	4000 (Adj.)	Internal		Resistor Programmable up to 4MHz	QFN10 (3x3) SOIC8E
MP1593	4.75	28	3.0	6.2	1.0	1.22	385	External		External Comp	SOIC8E
MP2372	4.75	28	3.0	6.5	1.3	0.92	925	External		External Comp	SOIC8E
MP2365	4.75	28	3.0	6.5	1.3	0.92	1400	External		External Comp	SOIC8E
MP4462	4.5	36	3.5	4.7	0.1	0.8	4000 (Adj.)	Internal		Resistor Programmable up to 4MHz	QFN10 (3x3) SOIC8E
MP28490	4.5	30	5.0	7.5	0.9	0.8	420	Internal	√	Power Good	SOIC8E
<b>LOW DROPOUT (LDO) LINEAR REGULATORS</b>											
Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	Load Current (mA)	Load Regulation (%/mA)	PSRR @1kHz (dB)	Feedback Voltage (V)	Dropout Voltage (mV)	V <sub>OUT</sub> (V)	Notes	Package	
MP2016	4.0	42	30	0.003	50	1.23	700 (I <sub>o</sub> :30mA)	1.2 – 2.0	Ideal for Automotive	TSOT23-5 QFN8 (2x3)	
MP2000	1.35	6.0	150	0.001	50	0.5	250 (I <sub>o</sub> : 100mA) 300 (I <sub>o</sub> : 150mA)	0.5 – 5.0	Low Voltage Input	TSOT23-5	
MP8801	2.7	6.5	150	0.001	70	1.22	150 (I <sub>o</sub> :150mA)	Adj., 2.5V, 2.85V & 3.3V	Low Noise. Excellent for RF Applications	TSOT23-5	
MP8903	2.7	6.5	150	0.001	50	1.22	150 (I <sub>o</sub> :150mA)	Adj., 2.5V, 2.85V & 3.3V		TSOT23-5 QFN8 (2x2)	
MP8802	2.7	6.5	250	0.001	70	1.22	230 (I <sub>o</sub> :250mA)	Adj., 2.5V, 2.85V & 3.3V	Excellent for RF Applications	TSOT23-5	
MP8904	2.5	6.5	500	0.001	26	0.5	290 (I <sub>o</sub> :500mA)	0.5 – 5.0	Power Good	QFN8 (2x3)	
MP2002	1.35	6.5	500	0.001	26	0.5	290 (I <sub>o</sub> :500mA)	0.5 – 5.0	Low Voltage Input, Power Good	QFN8 (2x3)	
MP2005	1.0	5.5	800	0.0005	65	0.5	70 (I <sub>o</sub> :800mA)	0.5 – 4.0	Fast Transient/48dB PSRR @ 1MHz	QFN8 (2x3)	



**STEP-UP (BOOST) CONVERTERS**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	V <sub>OUT</sub> (V)	I <sub>SW</sub> Limit (Typ) (A)	I <sub>O</sub> (Typ) (mA)	Feedback Voltage (V)	Switching Frequency (kHz)	Sync	Notes	Package
MP3209	2,5	6,0	22	0,35	0,64	1,25	1400			TSOT23-5 UTQFN8 (2x2)
MP1522	2,7	25	25	0,45	0,65	1,23	Variable		UVLO, Variable Frequency	SOT23-5
MP3208	2,7	25	25	0,45	0,65	0,30	Variable			TSOT23-5
MP1531	2,7	5,5	22	0,65	0,8	1,25	250		Triple Output Step-Up + Charge Pump for TFT Bias	QFN16 (3x3) TSSOP16
MP3410	1,8	6,0	6,0	1,3	0,36	1,19	550	√	Output Disconnect	TSOT23-5
MP3201	2,7	6,0	20	1,5	0,2	1,24	1100		Fast transient response	TSOT23-5
MP1541	2,5	6,0	22	1,9	0,64	1,25	1300			TSOT23-5
MP1542	2,5	22	22	2,6	0,7	1,25	700/1300			MSOP8
MP1527	2,6	25	25	3,0	0,9	1,22	1300			QFN16 (4x4) TSSOP14
MP3213	2,5	22	22	3,5	0,7	1,25	700/1300			MSOP8E
MP1530	2,7	5,5	22	3,6	1,3	1,25	1400		Triple Output Charge Pump + LDO for TFT Bias	QFN16 (3x3) TSSOP16
MP1517	2,6	25	25	4,0	0,9	0,70	1100			QFN16 (4x4)

**Controllers**

MP3900	8,6	12	10V Gate Driver	0.2V/Rsense	0,18	0,82	330		(Boost Controller) 10V Gate Driver	MSOP8
MP3908	4,75	12	10V Gate Driver	0.19V/Rsense	0,27	0,82	260	√	Sync Boost Controller, Lossless Current Sense, Forward, Flyback, Sepic Apps, External Soft Start	MSOP10

**USB & POWER DISTRIBUTION / CURRENT LIMIT SWITCHES**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	Max Continuous Current (A)	Short Circuit Current Max (A)	Channels	Enable Logic	Fault Flag	Output Slew Rate Control	Prog. Current Limit	Note	Package
MP6205	2,7	5,5	0,5	1	Single	Active High	Over-Current, Active Low	No	No	Active High Single 500mA Current-Limit Switch	QFN8 (2x3)
MP6232	2,7	5,5	0,5	1,1	Dual	Active Low	Over-Current, Active Low	No	No	Active Low Dual 500 mA/ch Current-Limit Switch	SOIC8E MSOP8E
MP6231	2,7	5,5	0,5	1,1	Dual	Active High	Over-Current, Active High	No	No	Active High Dual 500 mA/ch Current-Limit Switch	SOIC8E MSOP8E
MP6211	2,7	5,5	1	2,2	Single	Active High	Over-Current, Active High	No	No	Active High Single 1A Current-Limit Switch	SOIC8E MSOP8E
MP6212	2,7	5,5	1	2,2	Single	Active Low	Over-Current, Active Low	No	No	Active Low Single 1A Current-Limit Switch	SOIC8E MSOP8E
MP6219	2,7	5,5	2	Progr	Single	Active High	Thermal Fault = Tri-State	No	Yes	1-2A Programmable Current-Limit, 1.4ms Turn-On Time	SOIC8E
MP6233	2,7	5,5	1,5	2,6	Dual	Active High	Over-Current, Active Low	No	No	Active High 1.5A Current-limit Switch	MSOP8E
MP5001	4	10	4,2	Progr	Single	Active High	Thermal Fault = Tri-State	Yes	Yes	1-5A Programmable Current-Limit & Slew Rate Control	QFN10 (3x3)
MP5000	10	18	4,2	Progr	Single	Active High	Thermal Fault = Tri-State	Yes	Yes	1-5A Programmable Current-Limit & Slew Rate Control	QFN10 (3x3)

**POWER DRIVERS**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	I <sub>SW</sub> Limit (Typ) (A)	Frequency (kHz)	Output Current (A)	I <sub>O</sub> (Typ) (mA)	Notes	Package
MP8040	7,5	24	9,0	1200	9A Peak, 4.25A Continuous	1,5	High Current Half Bridge	SOIC8E
MP8042	7,5	24	5,0	600	5A Peak, 4A Continuous	2,1	Dual Channel Half Bridge, Optimized For Audio	TSSOP20E
MP8044	7,5	22	4,0	600	4A Peak, 3A Continuous	2,1	Dual Channel Half Bridge, Optimized For Audio	TSSOP20F

**AUDIO PRODUCTS**

**CLASS D AUDIO AMPLIFIERS**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	Output Power (W)	Efficiency (%)	THD+N (%)	PSRR (dB)	Type	Notes	Package
MP7742	9,5	28	15 (2x)	90	0.018 @ 1W	60	Stereo	Single-Ended	TSSOP20F
MP7720	9,5	24	20	93	0.04 @ 1W	60	Mono	Single-Ended	PDIP8 SOIC8
MP7722	9,5	24	20 (2x)	93	0.06 @ 1W	60	Stereo	Single-Ended	TSSOP20F
MP8044	7,5	22	25	-	-	-	Stereo	Single-Ended	TSSOP20F
MP7731	9,5	18	30	90	0.10 @ 1W	60	Mono	BTL	TSSOP20F
MP7782	9,5	24	50	90	0.06 @ 1W	60	Mono	Full-Bridge BTL Output	TSSOP20F



**BACKLIGHT**

**WHITE LED DRIVERS (INDUCTORS AND CHARGE PUMPS)**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	V <sub>OUT</sub> (Max) (V)	# of LEDs (Max)	# of Strings	Current Limit (Typ)(A)	Feedback Voltage (V)	Switching Frequency (kHz)	Open LED Prot.	Type	Notes	Package
MP2370	4,5	24	15	3	1	1.8	0,155	1400		Buck	High Voltage Input, High Efficiency	TSOT23-6
MP2481	4,5	36	-	27-36	3-9	2.0	0,203	1400	√	Buck-Boost	<b>Buck-Boost WLED Halogen Replacement up to 5W</b>	MSOP8
MP3204	2,5	6,0	21	5	1	0.35	0,104	1300	√	Boost	UVLO, Low EMI, Thermal Shutdown	TSOT23-6
MP3205	2,5	6,0	21	5	1	0.35	0,104	1300		Boost	Internal Open LED Protection	TSOT23-5
MP1518	2,5	6,0	25	6	1	0.35	0,104	1300		Boost		TSOT23-6 QFN8 (2x2)
MP1528	2,7	36	-	9	3	0.95	0,4	Variable	√	Boost		QFN6 (3x3) MSOP8
MP1529	2,7	5,5	25	16	3	1.2	-	1200	√	Boost	Integrated Flash	QFN16 (4x4)
MP1517	2,6	25	25	18	3	4.0	0,7	1100	√	Boost	UVLO, External Comp	QFN16 (4x4)
MP3302	2,5	6,0	36	27	9	1,3	0,2	1300	√	Boost	Large Panel Drive, High Voltage Output	QFN8 (2x3)
MP3202	2,5	6,0	25	39	13	1,3	0,104	1300	√	Boost	1.3A Current Limit, UVLO, Low EMI, Thermal Shutdown	TSOT23-5 QFN8 (2x3)
MP1519L	2,5	5,5	-	3	3	-	-	1300	√	Charge Pump	Common Cathode	QFN16 (3x3) TQFN16 (3x3)
MP1519	2,5	5,5	-	4	4	-	-	1300		Charge Pump	Common Cathode	QFN16 (3x3)
MP3000	2,5	5,5	-	4	4	-	-	1300		Charge Pump	Single Wire Brightness Control, Common Cathode Charge Pump	QFN16 (3x3)
MP3021	2,7	5,5	-	4	4	-	-	1250		Charge Pump	Single Wire Brightness Control, Common Anode	QFN16 (3x3)
MP3001	2,7	5,5	-	5	5	-	-	1200		Charge Pump	Single Wire Brightness Control, Common Anode with Flash	QFN16 (3x3)
MP9361	2,8	5,0	5,0	1	3	-	-	1350		Regulated Charge Pump	Internal Soft Start	TSOT23-6

**CCFL DRIVERS**

Part No.	# of Lamps	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	I <sub>OUT</sub> Tolerance	I <sub>SUPPLY</sub> (mA)	Integrated Switches	Notes	Package
MP1010B	1	6,0	23	2%	1,8	√	Resonant Frequency	TSSOP20E
MP1026	1	4,5	14	3%	1,2	√	Resonant Frequency	TSSOP20E
MP1039	1	10	28	3%	1,4			TSSOP28
MP1048	Up to 6	10	22	3%	2,2			SOIC28 TSSOP28

**TRANSFORMER BASED POWER SUPPLIES**

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	P <sub>OUT</sub> (W)	I <sub>SW</sub> Limit (Typ) (A)	Topology	I <sub>O</sub> (Typ) (mA)	Feedback Voltage (V)	Switching Frequency (kHz)	Notes	Package
MP6001	4,5	100	15W (Max)	2.0	Flyback / Forward	-	-	55-550	Integrated 150V Power Switch	SOIC8E
MP3900	8,6	12	60W (Max)	0.2V/Rsense	Flyback / Forward	0,18	0,82	330	Boost Controller 10V Gate Driver	MSOP8
MP3908	4,75	12	60W (Max)	0.19V/Rsense	Flyback / Forward	0,27	0,82	260	Lossless Current Sense, Sepic Apps	MSOP10



PoE

PD IDENTITY

Part No.	Pass Device	Current Limit (mA)	Thermal Protection	IEEE Detection & Classification	Notes	Package
MP8001	100V, 0.8Ω DMOS	450	Yes	802.3af	15W PoE PD Controller	SOIC8

PD CONTROLLERS

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	V <sub>OUT</sub> (V)	I <sub>sw</sub> Limit (Typ) (A)	I <sub>O</sub> (Typ) (mA)	Feedback Voltage (V)	Switching Frequency (kHz)	Sync	Notes	Package
MP3900	8,6	12	10V Gate Driver	0.2V/Rsense	0,18	0,82	330		(Boost Controller) 10V Gate Drive	MSOP8
MP3908	4,75	12	10V Gate Driver	0.19V/Rsense	0,27	0,82	260	√	Sync Boost Controller, Optimized for PoE PD Power, Lossless Current Sense, Forward, Flyback, Sepic Apps, External Soft Start	MSOP10

BATTERY CHARGERS/PROTECTION

Part No.	Description	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	# of Cells	I <sub>CHARGE</sub> (A)	Trickle Charge	Charge Status	Charge Type	Package
MP2601	Simple System Charger 50mA 300mA Prog Charge No NTC	4,75	25	1	Up to .30	√	√	CV/CC Linear	TSOT23-5
MP2603	Simple System Charger 50mA 150mA Prog Charge No NTC	4,75	25	1	Up to .15	√	√	CV/CC Linear	TSOT23-5
MP2604	Includes NTC, Battery Temp Monitor	3,5	28	1	Up to 1.0		√	CV/CC Linear	QFN10 (3x3)
MP2602	Includes NTC, Batt Temp Monitor, Trickle Charge	3,5	28	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP26028	Includes Batt Temp Monitor, Trickle Charge	3,5	28	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP2606	Wide IBF Hysteresis, NTC	3,5	28	1	Up to 1.0		√	CV/CC Linear	QFN10 (3x3)
MP2608	Dual Input USB & AC-Adapter	3,5	28	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP26056	Dual-mode USB/AC-Adapter	3,5	20	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP2605	Auto-Charge Term & Recharge, Timer	3,5	28	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP26053	Ichg=10% of Iset, Timer, Auto-term & Recharge	3,5	28	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP26058	Includes LDO Mode & Timer	3,5	28	1	Up to 1.0		√	CV/CC Linear	QFN10 (3x3)
MP26057	Travel Charger	3,5	28	1	Up to 1.0	√	√	CV/CC Linear	QFN10 (3x3)
MP2670	Charger Protection; 30V Surge Protection, Input OVP, Battery OVP and Charge OVP	4,3	30	1	-			Battery Protection	QFN10 (3x3)

PRECISION ANALOG

OPERATIONAL AMPLIFIERS

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	GBW (kHz)	I <sub>O</sub> (Typ) (μA)	PSRR (dB)	Slew Rate (V/μs)	Offset Voltage (mV)	Notes	Package
MP8102	1,8	5,5	200	7,5	80	0,1	1,0		TSOT23-5
MP8101	1,8	5,5	400	11	80	0,2	1,0		TSOT23-5
MP8103	1,8	5,5	200	14	80	0,1	1,0	Dual Channel	MSOP8
MP8130	2,7	36	100	10	80	0,1	1,0	High Voltage	TSOT23-5

HIGH-SIDE CURRENT SENSE AMPLIFIERS

Part No.	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	I <sub>O</sub> (Typ) (μA)	PSRR (%/V)	Offset Voltage (mV)	Notes	Package
MP8100	2,5	18	12	0,05	0,25	High Side Current Sense	SOIC8
MP8110	2,5	40	12	0,05	0,5	High Side Current Sense	SOIC8 MSOP8

VOLTAGE REFERENCE

Part No.	Description	V <sub>IN</sub> (Min) (V)	V <sub>IN</sub> (Max) (V)	Output Voltage (V)	Initial Accuracy (%)	Operating Current (mA)	Zout (Ω)	Notes	Package
MP8200	1.0V Shunt Reference	1,0	12	1,00	1,0	100uA to 10mA	0,5	Precision Shunt Reference	SOT23



**PART NUMBERING NOMENCLATURE**

**PART NUMBERING EXAMPLE: MP1521EK-LF-Z**

MP	1521	E		K				-LF	-Z
Monolithic Power	Part Number	Temperature Grade		Package				Lead Free	Tape & Reel
MP####	C	0 to +70°C		X	Sorted Wafer	W	SOIC - WB w/EXPOSED PAD	-LF	-Z
	E	- 20°C to +85°C		XN	Unsorted Wafer	S	SOIC		
	D	- 40°C to +85°C		K	MSOP	N	SOIC w/EXPOSED PAD		
	H	- 40°C to +125°C		H	MSOP w/EXPOSED PAD	G	QFN (2x2)		
	K	- 55°C to +125°C		P	PDIP (300 mil)	Q	QFN (3x3)		
				M	TSSOP	R	QFN (4x4)		
				F	TSSOP w/EXPOSED PAD	U	QFN (5x5)		
				T	SOT23 (1.1mm height)	D	QFN (2x3)		
				J	TSOT23 (0.9mm height)	L	QFN (3x4)		
				Y	SOIC-WB (Wide-Body)	E	SC70		
				QK	QFN (6x6)	QN	QFN (7x7)		

Monolithic Power Systems®  
 MPS US Corporate Headquarters  
 6409 Guadalupe Mines Road  
 San Jose, California 95120 USA  
 Tel: 408-826-0600  
 Fax: 408-826-0601

