

WHITE LED DRIVERS | DISPLAY BACKLIGHTING POWER

Inductors & Charge Pumps

	Part Number	VIN (Min) (V)	VIN (Max) (V)	VOUT (Max) (V)	# of Channels	Current Limit (Typ) (A)	VFB (V)	FSW (kHz)	Open LED Protection	Type	Package	Notes
	MP3412	0.8	4.4	5	1	1.1	0.2	1000	✓	Boost	TSOT23-6	High Efficiency
	MP9361	2.8	5	5	1			1350	✓	Reg.Charge Pump	TSOT23-6	Internal SS
	MPQ9361	2.8	5	5	1			1350		Reg.Charge Pump	TSOT23-6	Internal SS, Industrial Grade
New	MP3312	2.7	5.5	36	2	1.8	0.24	1200	✓	Boost	WLCSP9 (1.3x1.3)	P2P Compatible with TPS61163 for Smart Phones LCD Backlight
	MP3309	2.7	5.5	35	1	1.5	0.2	300 to 2200 Prog.	✓	Boost	QFN10 (1.4x1.8)	Synchronous Boost for Tablet and Smart Phones
	MP3309C	2.7	5.5	35	1	1.5	0.2	300 to 2200 Prog.	✓	Boost	QFN10 (1.4x1.8)	Synchronous Boost, I ² C Interface for Tablet and Smart Phone
New	MP3307	2.7	5.5	35	1	1.6 (Min)	0.2	300 to 2200 Prog.	✓	Boost	TSOT23-8	Up to 2.2MHz Boost WLED Driver, Automotive Infotainment LCD
	MP1519	2.5	5.5	10	4			1300		Charge Pump	QFN16 (3x3)	Common Cathode
	MP1529	2.7	5.5	25	3	1.2		1200	✓	Boost	QFN16 (4x4)	Integrated Flash
	MP3021	2.7	5.5	4	4			1250		Charge Pump	QFN16 (3x3)	Single-Wire Brightness Control, Common Anode
	MP3204	2.5	6	21	1	0.35	0.104	1300	✓	Boost	TSOT23-6	UVLO, Low EMI, Thermal Shutdown
	MP3205	2.5	6	21	1	0.35	0.104	1300		Boost	TSOT23-5	MP3204 without OV Pin
	MP3304 (A/B/C)	3	6	36/24/18	1	1.33	0.2	2200	✓	Boost	QFN8 (2x3)	High Efficiency, True PWM Dimming
	MP3305	3	6	36	1	1.33	0.2	2200	✓	Boost	QFN8 (2x3)	High Efficiency, True PWM Dimming, Adjustable OVP Threshold
	MP3308	3	6	36	1	1.3	0.2	2200	✓	Boost	QFN14 (3x4)	Boost WLED Driver Supporting CABC Dimming for Tablet PC or Smart Phone
	MP1518	2.5	6	25	1	0.35	0.104	1300		Boost	QFN8 (2x2) TSOT23-6	Boost WLED Driver
	MP3202	2.5	6	25	1	1.3	0.104	1300	✓	Boost	QFN8 (2x2) TSOT23-5	UVLO, Low EMI, Thermal Shutdown

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MP3302	2.5	6	36	1	1.3	0.2	1300	✓	Boost	QFN8 (2x3) TSOT23-5	Large Panel Drive, High-Voltage Output
MP3306	3	12	30	1	1.8	0.2	700	✓	Boost	QFN12 (2x2)	Synchronous Boost LED Driver, Integrated Disconnect FET for Small Size LCD
MP3378	5	24	55	4			300 to 500	✓	Boost	SOIC28 TSSOP-28 EP	Integrated LED Boost Controller, DC/DC Buck Converter for Monitor and TV
MP1517	2.6	25	25	1	4	0.7	1100	✓	Boost	QFN16 (4x4)	UVLO, External Comp
MP3388S	4.5	25	50	8	2	0.6	625 or 1250	✓	Boost	QFN24 (4x4) SOIC28	PWM/DC Input Burst PWM Dimming
MP3387L	3	25	50	6	2.5	0.6	500 to 1250	✓	Boost	TQFN24 (4x4)	6-Channel, 50VOUT, Boost, Smart Dimming
MP3301	2.5	6	36	1	1		1300	✓	Boost	TSOT23-5	Boost WLED Driver for up to 10 Series LED, Smart Phone
MP3366	3	25	50	6	2.5	0.5	600	✓	Boost	WLCSP18 (1.3x2.5)	Small CSP Package, Smart Dimming, Tablet PC
MP3310	4.5	25	50	1	1.3	0.5	1200 Prog.	✓	Boost	QFN10 (3x3)	Wide 4.5V to 25V Input Range
MP3384L	3	25	50	4	1.3	0.6	1250 or 625	✓	Boost	QFN16 (3x3)	4-Channel Balanced Current Source
New MPQ3386	4.5	25	50	6	2.5	0.6	1250	✓	Boost	QFN24 (4x4)	6 String White LED Driver, Industrial and AECQ-Grade
New MP4013B	8	26	Ext. FET	1	Ext. FET	0.6	100 to 600	✓	Boost	SOIC16	More Features, Better Protection, Cost Effective, Replacing MP4012 & MP4013 in New Designs
MP3389	5	28	Ext. FET	12	Ext. FET	0.6	100 to 500	✓	Boost	TSSOP-28 EP SOIC28	External MOSFET, PWM or DC Input Burst PWM Dimming
MP3398A	5	28	Ext. FET	4	Ext. FET	0.6	100 to 500	✓	Boost	TSSOP-16 EP SOIC16 SOIC20	Inductor-Short Protection, Separate ADIM Pin
MP3398L	4.5	28	Ext. FET	4	Ext. FET	0.6	100 to 500	✓	Boost	SOIC16	Lower VIN (Min) of MP3398A, USB Powered Applications
MP3394S	5	28	55	4	Ext. FET	0.3	150-500	✓	Boost	TSSOP-16 EP SOIC16	P2P Compatible with MP3394, New Designs Recommend MP3394S
New MP3385	4.5	33	Ext. FET	4	Ext. FET	0.6	100-900	✓	Boost	QFN20	I ² C Digital Interface, ABS 80V LED Feedback Voltage Rating, Max 300mA/Channel

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MP3391	9	35	Ext. FET	8	Ext. FET	0.45	150 to 500	✓	Boost	SOIC28 TSSOP-28 EP	8-Channel, 80mA/Channel for 18-24" LCD Panel/TV
MP1528	2.7	36	36	1	0.95	0.4	Variable	✓	Boost	MSOP8 QFN6 (3x3) QFN8 (2x2)	Drives up to 9 Series White LED Drivers
MP3373	9	40	Ext. FET	8	Ext. FET	0.2	100 to 1000	✓	Boost	SOIC28 TSSOP28	Phase-Shift, Inductor-Short Protection; Cost Eff., Replacing MP3393 in New Designs
MP4601	4.5	75	75	1	2.5	0.2	200 to 2000 Prog.	✓	Buck-Boost	TSSOP-16 EP SOIC16	Novel Power-Leverage Technology for 60+ ^W TV, Regulates LED String up to 350V
MP4700	Offline	Offline	Ext. FET	1	Ext. FET	0.3	Up to 160	Ext. Comps.	Buck	SOIC8E	BCM Zero Current & Valley Voltage Switching >97% Efficiency, Low BOM, Low-Power Stress
MP24830-C470	Offline	Offline	Ext. FET	1	Ext. FET	0.2	50 to 365	✓	Buck-Boost	SOIC14 QFN14	Power Leverage in 2.5 Power Stage, Low BOM Cost & High Efficiency for Large TV
MP4653	Offline	Offline	Ext. FET	1	Ext. FET	0.2	20 to 250	✓	LLC	SOIC20	LIPS CC/CV Mode, for Large TV, 2-Power Stage, Low BOM Cost, High Efficiency
MP4655	Offline	Offline	Ext. FET	1	Ext. FET	0.2	40 to 130	✓	LLC	SOIC28	Single Stage Current and System Voltage Regulator

ANALOG INPUT | CLASS-D AUDIO

Mono

Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	P _{OUT} (W)	Efficiency (%)	THD+N (%)	PSRR (dB)	Package	Notes
MP1720	2.5	5.5	2.7	90	0.11 @ 1W	60	QFN10 (3x3) MSOP-10E	BTL, Low EMI, High-Efficiency, Flexible Switching Frequency Setting
MP1740	2.5	5.5	3	90	0.11 @ 1W	62	9-Ball WLCSP (1.5x1.5)	BTL, Ultra Small for Portable and Mobile Phones
MP7731	9.5	18	30	90	0.10 @ 1W	60	TSSOP20F	30W Amplifier, Exposed Pad
MPQ7731	9.5	18	30	90	0.10 @ 1W	60	TSSOP20F	30W Amplifier, Exposed Pad, Industrial Grade
MP7741	9.5	36	10	94	0.02 @ 1W	58	QFN10 (3x3)	Single-Ended, Fully Integrated Audio Amplifier
MP7740	9.5	36	15	90	0.018 @ 1W	60	SOIC8	15W, Single-Ended Amplifier
MP7747	9.5	36	20	91	0.02 @ 1W	59	QFN10 (3x3)	Single-Ended, Fully Integrated Audio Amplifier

Stereo

	Part Number	V _{IN} (Min) (V)	V _{IN} (Max) (V)	P _{OUT} (W)	Efficiency (%)	THD+N (%)	PSRR (dB)	Package	Notes
	MP7722	9.5	24	20 (2x)	93	0.06 @ 1W	60	TSSOP20F	Single-Ended Audio Amplifier, Exposed Pad
	MP7745	9.5	26	20 (2x)	93	0.05 @ 1W	59	TSSOP20F	Single-Ended, Fully Integrated Audio Amplifier, P2P with MP7722, Exposed Pad
	MP7742	9.5	28	15 (2x)	90	0.018 @ 1W	60	TSSOP20F	Single-Ended, Fully Integrated Audio Amplifier, P2P with MP7722, Exposed Pad
	MP7748S	9.5	36	30 (2x)	94	0.02 @ 1W	59	TSSOP-28 EP	2x30W SE or 1x60W BTL Audio Amplifier
New	MP7751	5	26	20 (2x)	92	0.06 @ 1W	60	TSSOP-28 EP	5-26VDD, 2 x 20W BTL Audio Amplifier
New	MP7752	5	18	15 (2x)	90	0.06 @ 1W	60	TSSOP-28 EP	5-18VDD, 2 x 15W Filterless BTL Audio Amplifier
	MP7770	9.5	36	45 (2x)	95	0.03 @ 1W	60	TSSOP28F	2x45W SE or 1x90W BTL Audio Amplifier, 8.5A Peak, Exposed Pad