

Designed by: JTA Design		Ver: 2	Code:	Parts list: High power led driver	Original by: JTA 24.5.2009 Updated by:
ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
3	C1 C3-7	6	FARNELL: 1288206	CER CAPACITOR 10µ 25V X5R 1206	KEMET: C1206C106K3PAC
1	C2 C8 C10 C12-13	5	FARNELL: 1288255	CER CAPACITOR 100n 10% 50V X7R 0603	
4	C9	1	ELFA: 67-731-62 FARNELL: 1135118	TANTALUM 22µ 25V 20% 105°C D-CASE	KEMET: T495D226M025AS
2	C11	1	ELFA: 65-758-49 FARNELL: 722236	CER CAPACITOR 10n 10% 50V X7R 0603	
18	D1	1	FARNELL: 1649397 DIGI-KEY: 296-19731-1-ND	MSP430F2002 MCU 16 MHZ 1 kB FLASH 128B RAM TSSOP14	TI: MSP430F2002IPW
15	L1	1		SHIELDED DUAL SEPIC COIL 10µH 2.7A	WÜRTH: 744870100
16	N1	1	FARNELL: 122-6286	LTC3783 PWM BOOST LED DRIVER TSSOP16-EP	LINEAR: LTC3783EFE
17	N2	1	FARNELL: 1469119	LP2951 ADJ LDO REGULATOR 1.24-29V/3.3V 100 mA SO8	NATIONAL: LP2951ACM-3.3/NOPB
25	R1	1	FARNELL: 9238530	RESISTOR 2k7 1% 100PPM 50V 63mW 0603	
24	R2	1	ELFA: 60-446-30 FARNELL: 1652863	RESISTOR 240R 1% 100PPM 50V 63mW 0603	
21	R3	1	ELFA: 60-450-82 FARNELL: 9238638	RESISTOR 18k 1% 100PPM 50V 63mW 0603	
20	R4 R6 R10-11 R13-14 R16 R19-20	9	ELFA: 60-450-25 FARNELL: 9238603	RESISTOR 10k 1% 100PPM 50V 63mW 0603	
27	R5	1	FARNELL: 110-0050	RESISTOR 0R05 1% 100PPM 200V 1W 2010	
28	R7	1	ELFA: 60-447-47 FARNELL: 9238468	RESISTOR 680R 1% 100PPM 50V 63mW 0603	
19	R8	1	FARNELL: 110-0067	RESISTOR 0R1 1% 100PPM 200V 2W 2512	
22	R9	1	ELFA: 60-455-04 FARNELL: 9238840	RESISTOR 1M 1% 100PPM 50V 63mW 0603	
26	R12	1	ELFA: 60-451-32 FARNELL: 1469797	RESISTOR 30k 1% 100PPM 50V 63mW 0603	
23	R18	1	ELFA: 60-447-88 FARNELL: 9238484	RESISTOR 1k 1% 100PPM 50V 63mW 0603	
12	V1 V3 V5	3	FARNELL: 984-5224	FDS5670 N-FET 60V 17mR SO8	FAIRCHILD: FDS5670
8	V2	1	FARNELL: 9557377	MBRS340T3 SCHOTTKY RECTIFIER 40V 3A DO-214AB	ONSEMI: MBRS340T3G
11	V4	1	ELFA: 70-401-16 FARNELL: 9886230	TRANSZORB SMBJ30A 30V 600W DO-214AA	GI: SMBJ30A SEMTECH: SESMBJ30A
10	V6 V8	2	ELFA: 70-300-42 FARNELL: 1081431	ZENER BZX84-C5V6 5.6V 300mW 5% SOT23	BZX84-C5V6
13	V9 V14-15	3	FARNELL: 9556648	NPN DIGITAL TRANSISTOR R1=10k R2=10k SOT23	ONSEMI: MMUN2211LT1
9	V10-12	3	ELFA: 70-305-96 FARNELL: 1081192	BAT54C DUAL SCHOTTKY DIODE 30V 0.2A SOT23	NXP: BAT54C
14	V13	1	FARNELL: 9556702	PNP DIGITAL TRANSISTOR R1=10k R2=10k SOT23	ONSEMI: MMUN2111LT1
5	X1-2	2		CONNECTOR PHOENIX 2 PIN MKD5N 1,5/2-5,08	PHOENIX: 1729018
7	X3	1		PINHEADER 5	
6	X4	1		PINHEADER 2	
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