

Designed by: JTA Design		Ver: 1	Code:	Parts list: Luxeon K2 regulator	Original by: JTA 29.7.2007 Updated by:
ITEM	REFERENCE	QTY	CODE	DESCRIPTION	MANUFACTURER / SUPPLIER
1	C2 C8 C10 C12	4	FEC: 1288255	CER CAPACITOR 100n 10% 50V X7R 0603	
2	C11	1	ELFA: 65-758-49 FEC: 722236	CER CAPACITOR 10n 10% 50V X7R 0603	
3	C1 C3-7	6	FEC: 1288206	CER CAPACITOR 10u 25V X5R 1206	KEMET: C1206C106K3PAC
4	C9	1	ELFA: 67-731-62 FEC: 1135118	TANTALUM 22µ 25V 20% 105C D-CASE	KEMET: T495D226M025AS
5	X1-2	2		CONNECTOR PHOENIX 2 PIN MKDSN 1,5/2-5,08	PHOENIX: 1729018
6	X4	1		PINHEADER 2	
7	X3	1		PINHEADER 5	
8	V2	1	FEC: 9557377	MBRS340T3 SCHOTTKY RECTIFIER 40V 3A DO-214AB	ONSEMI: MBRS340T3G
9	V10-11	2	ELFA: 70-305-96 FEC: 1081192	BAT54C DUAL SCHOTTKY DIODE 30V 0.2A SOT23	NXP: BAT54C
10	V6 V8	2	ELFA: 70-300-42 FEC: 1081431	ZENER BZX84-C5V6 5.6V 300mW 5% SOT23	BZX84-C5V6
11	V4	1	ELFA: 70-401-16 FEC: 9886230	TRANSZORB SMBJ30A 30V 600W DO-214AA	GI: SMBJ30A SEMTECH: SESMBJ30A
12	V7 V9	2	ELFA: 71-038-72 FEC: 1021754	N-FET 60V 5R SOT-23	NXP: 2N7002
13	V1 V3 V5	3	FEC: 984-5224	FDS5670 N-FET 60V 17mR SO8	FAIRCHILD: FDS5670
14	L1	1		POWER INDUCTOR 10uH IRMS 5.0A ISAT 5.5A	WÜRTH: 74477110
15	N1	1	FEC: 122-6286	LTC3783 PWM BOOST LED DRIVER TSSOP14-EP	LINEAR: LTC3783EFE
16	N2	1	ELFA: 73-269-72 FEC: 9493425	LP2951 ADJ LDO REGULATOR 1.24-29V 100 mA SO8	NATIONAL: LP2951CM/NOPB
17	D1	1	FEC: 1292252	PIC10F204 8BIT 4MHZ MCU 256W FLASH 16B RAM SOT23-6	MICROCHIP: PIC10F204-I/OT
18	R8	1	FEC: 110-0067	RESISTOR 0R1 1% 100PPM 200V 2W 2512	
19	R19	1	ELFA: 60-452-64 FEC: 9238727	RESISTOR 100k 1% 100PPM 50V 63mW 0603	
20	R1 R4 R6 R10-11 R14 R16-17	8	ELFA: 60-450-25 FEC: 9238603	RESISTOR 10k 1% 100PPM 50V 63mW 0603	
21	R3	1	ELFA: 60-450-82 FEC: 9238638	RESISTOR 18k 1% 100PPM 50V 63mW 0603	
22	R9	1	ELFA: 60-455-04 FEC: 9238840	RESISTOR 1M 1% 100PPM 50V 63mW 0603	
23	R15 R18	2	ELFA: 60-447-88 FEC: 9238484	RESISTOR 1k 1% 100PPM 50V 63mW 0603	
24	R12	1	ELFA: 60-451-40 FEC: 9238662	RESISTOR 33k 1% 100PPM 50V 63mW 0603	
25	R2	1	ELFA: 60-447-05 FEC: 9238441	RESISTOR 470R 1% 100PPM 50V 63mW 0603	
26	R13	1	ELFA: 60-449-45 FEC: 9238565	RESISTOR 4k7 1% 100PPM 50V 63mW 0603	
27	R5	1	FEC: 110-0050	RESISTOR 0R05 1% 100PPM 200V 1W 2010	
28	R7	1	ELFA: 60-447-47 FEC: 9238468	RESISTOR 680R 1% 100PPM 50V 63mW 0603	