

BILL OF MATERIAL

Title : PCB Assembly.

12.5V @ 6.0A

Application : DC TO DC CONNECTOR

Sl.	Circuit Ref.	Make	Part no.	Description	Qty.
				CONVERTOR PCB :	
1	PTH Board	Approved Vender		80 x 65mm double sided glass epoxy 1.6mm pcb with 35 μ ' ns copper thickness Ref. Doc. No.-----	1
				SEMICONDUCTORS :	
2	U1	Texas	LM25118MH	IC 20 pin	1
3	Q1,Q2	Approved Vender	BSC027N04LS G 027N04LS	Mosfet ,Vds-40V,Rds2.7m ,ID-100A Package-PG-TDSON-8	2
4	D1,D2	Approved Vender	MBR20200CT Diode	Schottky Barrier Rectifiers Volt:200,Curr.:20A TO-220 Package	2
5	LED1	SANKYO /KWALITY		High Intensity round 5mm Blue LED	1
				CAPACITORS :	
6	C2	Approved Vender	1000 μ F/50V	1000 μ F, 50V , \pm 20%, 105°C (10 X 16mm)	1
7	C12,C13	Approved Vender	1000 μ F/25V	1000 μ F, 25V , \pm 20%, 105°C (10 X 16mm)	2
				SMD Capacitors :	
8	C1,C3,C4,C9,C21,C14	Approved Vender	100n/50V (SMD)	Capacitor 100n/50V \pm 5%(SMD) Package-1206	6
9	C5	Approved Vender	22n/50V (SMD)	Capacitor 22n/50V \pm 5%(SMD) Package-1206	1
10	C6	Approved Vender	470pf/50V (SMD)	Capacitor 470pf/50V \pm 5%(SMD) Package-1206	1
11	C10	Approved Vender	1n/50V (SMD)	Capacitor 1n/50V \pm 5%(SMD) Package-1206	1
12	C11	Approved Vender	22n/50V (SMD)	Capacitor 22n/50V \pm 5%(SMD) Package-1206	1

Prepared by :
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13	C7,C8	Approved Vender	1uf/50V (SMD)	Capacitor 1uf/50V $\pm 5\%$ (SMD) Package-1206	2
				SMD RESISTORS :	
14	R1	Approved Vender	30K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
15	R2	Approved Vender	1M	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
16	R3	Approved Vender	10K (SOT)	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
17	R4	Approved Vender	4.7K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
18	R5	Approved Vender	330K (SOT)	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
19	R6	Approved Vender	20K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
20	R7	Approved Vender	8.7K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
21	R9	Approved Vender	Dummy	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	
22	R10	Approved Vender	120K (SOT)	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
23	R11	Approved Vender	10K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
24	R12	Approved Vender	1K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
25	R8	Approved Vender	10m (0.01)	MFR 1 W $\pm 1\%$ Package-1210	1
26	R15	Approved Vender	6.8K	MFR $\frac{1}{4}$ W $\pm 1\%$ Package-1206	1
				INDUCTOR :	
27	L1	Approved Vender		Inductor :4.7uH,	1

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