

Filename: PWR050A_bom.xls

Date: 12/1/2011

PWR050A_BOM

Count	RefDes	Value	Description	Size	Part Number	MFR
2	C1, C20	100pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	STD	STD
4	C10, C15, C18, C21	100nF	Capacitor, Ceramic, 25V, X7R, 10%	0603	STD	STD
1	C11	10nF	Capacitor, Ceramic, 50V, X7R, 10%	0603	STD	STD
2	C2, C19	10uF	Capacitor, Ceramic, 16V, X7R, 10%	1206	STD	STD
1	C3	10uF	Electrolytic, RADIAL, 450V, 20%, 105C	0.500 inch	EKXG451ELL100MK20S	United Chemicon
2	C4, C7	330 uF	Capacitor, Electrolytic 20±%	8X12 mm	ELXZ160ELL331MH12D	Nippon Chemi-con
4	C5, C9, C12, C13	220pF	Capacitor, Ceramic, 50V, C0G, 5%	0603	STD	STD
1	C6	47 uF	Capacitor, Electrolytic 35V, ±20%	6.3x11 mm	UVZ1V470MDD	Nippon Chemi-con
1	C8	150pF	Capacitor, Ceramic, 630V, U2J, 5%	1206	GRM31A7U2J151JW31D	Murata
1	D1	MMBD1204	Diode, Small Signal, 100V, 200 mA	SOT416	MMBD1204	Fairchild
2	D2, D3	MBRS1100T3G	Diode, Schottky, 2A, 100V	SMB	MBRS1100T3G	OnSemi
1	D4	MUR1100ERLG	Diode, Power, 1kV, 1A	CASE 59-10	MUR1100ERLG	On Semi
1	D5	MMBD914	Diode, Switching, 100V, 200mA	SOT23	MMBD914	Fairchild
7	PIN1, PIN2, PIN3, PIN4, PIN5, PIN6, PIN7	K24A/M	Pin, Thru Hole, Tin Plate, for 0.062 PCB's	0.039 inch	K24A/M	Vector
1	Q2	FQD3N60 STD3NK60ZT4	QFET, NChan Fast Switching, 600V, 2.4A	DPAK	FQD3N60 STD3NK60ZT4	Diodes STM
1	R1	47.5k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
2	R10, R12	4.99	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R11	100k	Resistor, Chip, 1/4 W, 1%	1206	STD	STD
2	R13, R15	3.01k	Resistor, Chip, 1/10W, 1%	0805	STD	STD
1	R14	1.37k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R16	20k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R17	1k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R18	22.1	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R2	10	Resistor, Chip, 1/16W, 1%	0603	STD	STD
2	R3, R47	100	Resistor, Chip, 1/10W, 1%	0805	STD	STD
1	R4	499	Resistor, Chip, 1/10W, 1%	0805	STD	STD
1	R41	33.2k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R43	4.99k	Resistor, Chip, 1/16W, 1%	0603	STD	STD

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1	R45	165k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R46	2.4	Resistor, Chip, 1/10W, 1%	0805	STD	STD
4	R5, R6, R7, R48	150k	Resistor, Chip, 1/10W, 1%	0805	STD	STD
1	R52	12.1k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R56	1.5k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R8	16.9k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	R9	4.42k	Resistor, Chip, 1/16W, 1%	0603	STD	STD
1	T1	2.3 mH	XFMR, Flyback \pm 10%	0.830x0.830 inch	GA3544-BL	Coilcraft
1	U1	UCC28600D	IC, Quasi-Resonant Flyback Green Mode Controller	SO8	UCC28600D	TI
1	U2	PS2581L1-H-A	Photocoupler, High Isolation Voltage	DIP4	PS2581L1-H-A	CEL
1	U3	TL431AQDBZ	IC, Precision Adjustable Shunt Regulator	SOT23-3	TL431AQDBZ	TI
1	U4	TLV2371QDBVRQ1	IC, 550uA, 3MHz R-R In/Out put Op-Amp	SOT23-5	TLV2371QDBVRQ1	TI
1	PCB	----	0.062" FR4, 2oz Cu.	1.2" x 2.2"	PWR050	Any

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
 2. These assemblies must be clean and free from flux and all contaminants.
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.