



					SUB-ASSEMBLY								
	USAGE	#		NO.	4A20325	RELEASE DATE	09/10/03	P/L	REV.	REV.	Units to	Total	Cost per
								DATE	LTR	DATE	Build	Cost	Unit
	323	1		TITLE	Model 323 Power Supply PCB Assembly 80325	JOB#	N/A	5/5/2003	A	8/7/2003	1	\$176.23	\$176.23
			# TO	MFGR	1	WORK ORDER #	N/A						
			NEXT	ASSY	4A-?????	NON STANDARD NOTATIONS							
DESIGNATOR	ITEM	QTY	EXT	STK		PART	MANUFAC		VENDOR	PURCH	UNIT		NEW
NUMBER	#	REQ	QTY	CHK	DESCRIPTION	#	TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
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	0.5	1	1		Schematic 10325b (80325), Model 323	1D20325 Rev.A	Designed by Andrey Filippov						
	20	1	1		Fabrication (80325), Model 323	4F20325 Rev.A							
	21	1	1		Artwork (80325), Model 323	4G20325 Rev.A							
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M1	40	1	1		Fan, 25x6mm, 5V, 100mA, 0.4W, KDE0502PEB2-8	KDE0502PEB2-8	Sunon	Digi-Key	259-1115-ND	1	13.7	13.7	0
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U1	41	1	1		Single 9-A High Speed Low-side MOSFET Driver with Enable, MSOP-8	UCC27321DGN	Texas Instruments	Digi-Key	296-13671-5-ND	1	2.54	2.54	0
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DC5	42	1	1		DC-DC Converter, Isolated, Single Output, 12V, 2W, NML	NML0512S	Newport	Mouser	580-NML0512S	1	14.04	14.04	0
DC1	43	1	1		DC-DC Converter, Isolated, Single Output, 5V, 6W, WP06RS	WP06R48S05N	Newport	Mouser	580- WP06R48S05N	1	28.76	28.76	0
DC2	44	1	1		DC-DC Converter, Isolated, Dual Output, 15V, 6W, WP06RD	WP06R48D15N	Newport	Mouser	580- WP06R48D15N	1	30.46	30.46	0
DC3	45	1	1		DC-DC Converter, Isolated, Single 3.3V Output, 48V, 10W, NPH10S	NPH10S4803	Newport	Mouser	580- NPH10S4803I	1	36.18	36.18	0
DC4	46	1	1		Step-Down DC/DC Converter, Synchronous, 4MHz, 1.25A, MS10, marked	LTC3411EMS	Linear Technology	Arrow		1	3.78	3.78	0
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CR1-CR5	47	5	5		Surface Mount Ultra Super-Recovery Rectifier, 200V, 2A, SMA	ES2D-13	Diodes Inc	Digi-Key	ES2DDICT-ND	5	0.76	3.8	0
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R6, R9	48	2	2		Resistor, 1.27K $\Omega$ , $\pm$ 1%, SMD 0603, marked as 1271	ERJ-3EKF1271V	Panasonic	Digi-Key	P1.27KHCT-ND	10	0.09	0.9	8
R4	49	1	1		Resistor, 324K $\Omega$ , $\pm$ 1%, SMD 0603, marked as 3243	ERJ-3EKF3243V	Panasonic	Digi-Key	P324KHCT-ND	10	0.09	0.9	9

DESIGNATOR	ITEM	QTY	EXT	STK		PART	MANUFAC		VENDOR	PURCH	UNIT		NEW
NUMBER	#	REQ	QTY	CHK	DESCRIPTION	#	TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
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R3	50	1	1		Resistor, <b>698KΩ, ±1%</b> , SMD 0603, marked as <b>6983</b>	ERJ-3EKF6983V	Panasonic	Digi-Key	P698KHCT-ND	10	0.09	0.9	9
R2	51	1	1		Resistor, <b>887KΩ, ±1%</b> , SMD 0603, marked as <b>8873</b>	ERJ-3EKF8873V	Panasonic	Digi-Key	P887KHCT-ND	10	0.09	0.9	9
R1, R5, R7-R8	52	4	4		Resistor, <b>13KΩ</b> , SMD 0603, marked as <b>133</b>	ERJ-3GEYJ133V	Panasonic	Digi-Key	P13KGCT-ND	10	0.08	0.8	6
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C11	53	1	1		Low ESR Tantalum Chip Capacitor with Polymer Electrode, <b>68μF, 4V</b> , SMD B	T520B686M004A S	Kemet	Digi-Key	399-3060-1-ND	1	1.1	1.1	0
C3, C6	54	2	2		Low ESR Tantalum Chip Capacitor with Polymer Electrode, <b>47μF, 6.3V</b> , SMD B	T520B476M006A S	Kemet	Digi-Key	399-3061-1-ND	2	1.1	2.2	0
C4-C5, C9	55	3	3		Capacitor, Tantalum Chip, <b>10μF, 20V</b> , SMD B, marked as <b>106/20V</b>	ECS-T1DX106R	Panasonic	Digi-Key	P11324CT-ND	10	0.709	7.09	7
C12	56	1	1		Capacitor, Ceramic Chip, <b>0.1μF, 25V</b> , C-0603D	06032F104Z8B20 D	Phycomp	Digi-Key	311-1087-1-ND	10	0.064	0.64	9
C1-C2	57	2	2		Capacitor, Tantalum Chip, <b>10μF, 35V</b> , SMD D	T491D106M035A S	Kemet	Digi-Key	399-1655-1-ND	2	1.23	2.46	0
C13	58	1	1		Capacitor, Aluminum Axial, 10x30mm, <b>100μF, 100V</b> , AXIAL30x10	2222-021-90532	BC Component s	Digi-Key	4095PHCT-ND	1	0.91	0.91	0
C7	59	1	1		Capacitor, Ceramic Chip, <b>10pF</b> , C-0603	0603CG100J9B20 0	Phycomp	Digi-Key	311-1058-1-ND	10	0.058	0.58	9
C10	60	1	1		Capacitor, Ceramic Chip, <b>22pF</b> , C-0603	0603CG220J9B20 0	Phycomp	Digi-Key	311-1062-1-ND	10	0.058	0.58	9
C8	61	1	1		Capacitor, Ceramic Chip, <b>1000pF</b> , C-0603	06032R102K9B20 D	Phycomp	Digi-Key	311-1080-1-ND	10	0.055	0.55	9
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L2	62	1	1		Flat cable EMI suppression core for 20mm x 0.75 mm cable, <b>125V, 1A</b> , SMD 2643173351	2643173351	Fair-Rite	Kreger Componen ts		1	0	0	0
L1	63	1	1		SMD Inductor, <b>2μHn, 2.44A</b> , D62CB	A920CY-2R0M	Toko	Digi-Key	TKS5512CT-ND	1	3.22	3.22	0
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J3	64	1	1		Connector header, Milli-Grid 2mm, Shrouded, Vertical SMT, 20 contacts, <b>125V, 1A</b> , 87332-2020	87332-2020	Molex	Digi-Key	WM18081-ND	1	2.68	2.68	0
J6-J7	65	2	2		Connector receptacle IDT, Milli-Grid 2mm, Polarized, 20 contacts, <b>125V, 1A</b> , 87568-2091	87568-2091	Molex	Digi-Key	WM14120-ND	2	3.74	7.48	0
J8	66	1	1		1.25mm Pitch Super Low profile Crimping Connector, 2 pins, Right angle SMT header., <b>150V, 1A</b> , DF142P125H	DF14-2P-1.25H-50	Hirose	Digi-Key	H1537-ND	1	1.18	1.18	0
J9	67	1	1		1.25mm Pitch Super Low profile Crimping Connector, 2 pos., Crimp Socket, <b>150V, 1A</b> , DF142S125C	DF14-2S-1.25C	Hirose	Digi-Key	H1563-ND	1	0.54	0.54	0

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NUMBER	#	REQ	QTY	CHK	DESCRIPTION	#	TURER	VENDOR	PART #	QTY	PRICE	TOTAL	STOCK
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J4-J5	68	2	2		Connector Header 2mm, Dual Row, Straight, 16 contacts, SMT,	<a href="#">PRPN082MAMP</a>	Sullins	<a href="#">Digi-Key</a>	S2208-08-ND	2	1.79	3.58	0
J1-J2	69	2	2		Connector Receptacle 2mm, Dual Row, SMD, 16 contacts, PPPN082FFKP	<a href="#">PPPN082FFKP</a>	Sullins	<a href="#">Digi-Key</a>	S2203-08-ND	2	1.89	3.78	0
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XJ9	70	2	2		1.25mm Pitch Super Low profile Crimping Connector, 26-28AWG Crimp Gold Terminal, DF142628SCFA	DF14-2628SCFA	Hirose	Digi-Key		0	0	0	-2