

Sheet1

DF-DRSSTCMasterPartsList
Oct. 12, 2005 V11

	Reference	Source	Quantity	Manufacturer	Part Number	Description	Vendor	Part Number	Cost Each	Cost Total		
H-Bridge	C1,C2		2	Cornell Dubilier	940C6W4P7K	4.7uF 600V Metalized Polypropylene Caps	Richardson	940C6W4P7K	4.63	9.26		
	C3,C4		0	Panasonic	ECKA3A103KBP	10nF 1kV Ceramic Capacitor	DigiKey	P9552-ND	0.99	0		
	IGBT1-IGBT4		4	International Rectifier	IRG4PF50WD	900V 204Apeak IGBT with Diode	DigiKey	IRG4PF50WD-ND	7.11	28.44		
	R1-R4		4	Yageo	CFR-50JB-1K0	1K Ohm 1/2W Resistor	DigiKey	1.0KMH-ND	0.02	0.08		
	R5,R6		2	Yageo	CFR-50JB-47K	47K 1/2W Resistor	DigiKey	47KMH-ND	0.02	0.04		
	TVS1-TVS4		4	Diodes Inc.	1.5KE24CACT	24V 1500 Watt Bi-Dir TVS	DigiKey	1.5KE24CADICT-ND	0.6	2.38		
	Terminal Block		4	Molex	1716020000	2-Pos Terminal Block	DigiKey	281-1435-ND	0.51	2.05		
	Terminals		8	Keystone	8191	Screw Terminal	DigiKey	8191K-ND	0.02	0.16		
	PC Board		1	ExpressPCB	H-Bridge-02.pcb	Drive PC Board	ExpressPCB	H-Bridge-02.pcb	20	20		
	Heat Sink		4	Wakefield	634-20ABP	Small Heat Sink - IGBT	DigiKey	345-1027-ND	2.42	9.68		
									Total		72.09	72.09
	Feedback	CT11-CT4		4	Triad	CST206-1T	120A Current Transformer 10k-200k Hz	DigiKey	237-1097-ND	6.67	26.68	
								Total		26.68	26.68	
Firing Circuit	D1		2	Diodes Inc.	1N4007DICT	1N4007 Rectifier	DigiKey	1N4007DICT-ND	0.26	0.52		
	C1		1	Panasonic	ECW-F6474JL	0.47uF 630V Poly Capacitor	DigiKey	P12268-ND	1.98	1.98		
	R1		1	Ohmite	TWM5J1K5	1.5K 5W Resistor	DigiKey	TWM5J1K5-ND	0.45	0.45		
	R2		1	Yageo	CFR-50JB-1M0	1M 1/2W Resistor	DigiKey	1.0MH-ND	0.02	0.02		
	SIDAC1		1	Teccor	K1500E70	140V 1A SIDAC	DigiKey	K1400E70-ND	0.52	0.52		
									Total		3.49	3.49
AC Line	F1		1	Bussmann	MDA-10	10A SlowBlow Fuse	DigiKey	283-2306-ND	1.23	1.23		
	D1		1	Crydom	CC1493	20A 1000PIV Rectifier	DigiKey	CC1493-ND	1.95	1.95		
	C1- C20		20	Panasonic	EEUEB2E220	22uF 250V Elect. Capacitor	DigiKey	PF5922-ND	0.63	12.68		
	FAN1		1	Sunon	259-1104-ND	120VAC 92MM AC Fan	DigiKey	259-1104-ND	11.82	11.82		
	R1-R4		4	Panasonic	ERG-3SJ273	27K 3W Resistor	DigiKey	P27KW-3BK-ND	0.48	1.9		
	LED1		1			LED Red			0	0		
	Fan Guard		1	Qualtek	8174	Fan Guard	DigiKey	CR220-ND	0.68	0.68		
	Heat Sink		1	IERC	7-340-3PP-BA	TO-220 Heat Sink	DigiKey	294-1035-ND	1.63	1.63		
	Lblock		1			500' 14 Ga. Wire Roll	Home Depot		16	16		
	NTC1		1	GE	CL-30	Inrush Current Limiter	DigiKey	KC003L-ND	2.7	2.7		
									Total		50.6	50.6
								Total		152.86	152.86	