

Sparky-1 BOM.xls

		Manufacturer Part				
Part	Value	Number	Package	Description	Digi-Key Part#	Price USD\$
BR1	DF08MA	DF08MA-E3/45	B-DIL	BRRIDGE RECTIFIER	DF08MA-E3/45GI-ND	\$0.61
C1	4700uf	EEU-FR1C472B	E-075X160	POLARIZED CAP	P15343CT-ND	\$2.14
C2	100pf (0.0001uf)	FK18C0G1H101J	C050-075X030	NON-POLARIZED CAP	445-4771-ND	\$0.29
C3	.01-0.1uf	C317C103K5R5TA	C050-075X030	NON-POLARIZED CAP .01uf	399-4206-ND	\$0.24
C4	.1uf	FK18X7R1E104K	C050-075X030	NON-POLARIZED CAP	445-8421-ND	\$0.29
C5	.1uf	FK18X7R1E104K	C050-075X030	NON-POLARIZED CAP	445-8421-ND	\$0.29
C6	.47uf	B32674D8474K	C275-320X100	METAL FILM CAP 875Vdc	495-2938-ND	\$1.96
D1	1N4148	1N4148TA	RAD2,5L	DIODE 1N914ATR or 1N4148TA	1N4148TACT-ND	\$0.10
D2	1N4148	1N914ATR	RAD2,5L	DIODE 1N4148TA or 1N914ATR	1N914ACT-ND	\$0.10
D3	RGPO2-12E-E3/73	RGPO2-12E-E3/74	C1702-05	DIODE SWITCH 1.2KV 0.5A DO204AL	RGPO2-12E-E3/73GICT-ND	\$0.49
IC1	NE555	NE555P	DIL-08	General purpose bipolar Timer	296-1411-5-ND	\$0.34
IC2	IR2302	IR2302PBF	DIL8	IC DRIVER HALF BRIDGE 8DIP 4.1 VOLT DISABLE	IR2302PBF-ND	\$3.33
L1	82 uH	AIUR-03-820K	WE-TI_L	Radial Leaded Wire Wound Inductor WE-TI	AIUR-03-820K-ND	\$0.39
LED1	RED		LED5MM	LED 15ma - 20ma MAX		\$0.15
MOSFET1	AOI510	AOI511	TO220BV	MOSFET N-CH 30V 70A TO251A	785-1487-1-ND	\$0.86
MOSFET2	AOI510	AOI512	TO220BV	MOSFET N-CH 30V 70A TO251A	785-1487-1-ND	\$0.86
OPTO1	4N36	4N36M	DIL06	General Purpose 6-Pin Phototransistor Optocouplers	4N36M-ND	\$0.57
R1	10k	MFR-25FBF52-10K	0207/2V	RES 10K OHM 1/4W 1% AXIAL	10.0KXBK-ND	\$0.10
R2	100k	MFR-25FBF52-100K	0207/2V	RES 100K OHM 1/4W 1% AXIAL	100KXBK-ND	\$0.10
R3	0 - 3 ohm	CFR-50JB-52-2R	0204/7	RES 2 OHM 1/2W 5% AXIAL	2.0H-ND	\$0.10
R4	33ohm or 220 ohm	CFR-25JB-52-220R	0207/2V	RES 220 OHM 1/4W 5% AXIAL 33ohm/MOSFET 220ohm/IGBT	220QBK-ND	\$0.08
R5	33ohm or 220 ohm	MFR-25FBF52-33R2	0204/7	RES 33.2 OHM 1/4W 1% AXIAL 33ohm/MOSFET 220ohm/IGBT	33.2XBK-ND	\$0.08
R6	10-21 Meg	VR37000002005JR500	0207/2V	RES 20M OHM 1/2W 5% AXIAL	PPCHHJ20MCT-ND	\$0.70
R7	220 ohm	CFR-25JB-52-220R	0204/7	RES 220 OHM 1/4W 5% AXIAL	220QBK-ND	\$0.08
SCR1	BT151	BT151-1000RT,127	TO220BV	THYRISTOR 1000V 12A TO220AB	568-7484-5-ND	\$0.90
T1	M8104CT-ND	PM61300-5-RC	CCFL-INVERTER_SMD	TRANSFORMER CCFL INVRT 10.5V SMD	M8104CT-ND	\$4.47
T2	RT-442		RT-442	IGNITION COIL	N/A	?
					TOTAL \$USD	\$19.62
BOARD	?	?	?	?	?	?
OPTIONAL C6	1uf	B32674D8105K	C275-320X100	METAL FILM CAP 875Vdc	495-2940-ND	\$2.45 best
	2uf	B32794D4225K	C275-320X100	METAL FILM CAP 1050Vdc	495-4802-ND	\$4.39 ouch