

Robot Power Simple-H - v1.4 - 2.8.07

Schematic ID	Description	Num	Value	Case	Pads	Holes	Manufacturer	Part #
CN1	Terminal Block	1	8-pos	2.54mm			8 Phoenix	1725711
Fan	Terminal Block	1	2-pos	3.5mm			2 Phoenix	1751248
C1	Main filter cap	1	470uF 35V	10mm x 20mm axial		2	Xicon	140-XAL35V470-RC
C2, C3	bridge caps	2	1.0uF 25V X7R/X5	1206	4		Kemet	C1206C105K3RACTU
B+, B-, M1, M2	Terminal Block	4	Snap-in PC mnt	-		16	Keystone	7693
	Motor LED	1	Red	T1		2	Lite-On	LTL-1CHE
D1	Motor LED	1	Green	T1		2	Lite-On	LTL-1CHG
D2, D3, D4	TVS	3	30V	SMB	6		Diodes Inc.	SMBJ30A-13
IC1, IC2	Motor 1/2 Bridge	2		TO-263-7	14		Infineon	BTS7960B
H1, H2	SMD Heatsinks	2		.4" high	4		Aavid Therm.	573300D00010
R1, R2, R6, R7	Buffer Resistors	4	10k 5%	1206	8		Yaego	RC1206JR-0710KL
R4, R5	LED Resistor	2	220 5%	1206	4		Yaego	RC1206JR-07220RL
R3, R8	Current sense res.	2	634 1%	1206	4		Yaego	RC1206FR-07634RL
J1	dual row header	0.11	.1" - 8 pos	.23" x .12"		8	Sullins	PEC36DAAN
Total parts		27						
Unique parts		14						
Total SMD Pads		44						
Total filled holes		40						