













Bill of Materials

Top Level - Motor Board

Source Data From: Motor_Board.PrjPcb

 Project:
 Motor_Board.PrjPcb

 Variant:
 None

 Creation Date:
 17/05/2011
 1:52:45 a.m.

 Print Date:
 40680
 40680.07836

Column Nam	Comment	#Column Name E	Designator	Description	Quantity
	ATXMEGA16A4-				
	AU				
	FDD8424H		*1, *2, *3, *4		
	10uF		C1, C16, C21	CAP 10uF 10% 10V X5R 0805	
	100nF		C2, C3, C4, C5, C8, C9	CAP CER .10UF 50V X5R 0603	
	4u7		C6	CAP CER 4.7UF 10V X5R 0603	
	100uF 6V3		C14, C15, C19, C20	100uF 6.3V 1206 multi-layer ceramic	
	1000. 010		011, 010, 010, 020	capacitor	
	1uF		C17, C22	CAP CER 1.0UF 50V X7R 0603	
	10nF		C18, C23	CAP CER 10000PF 100V X7R 0603	
	5A/40V		D1, D2, D3, D4, D5, D6, D7, D8	DIODE SCHOTTKY 5A 40V SMC	
	2A/40V		D9, D10, D13	Schottky Diode - 2A/30V	
	LED Green		D11	Green LED 0805	
	LED Red		D12, D14, D15	Red LED 0805	
	Comms		H1	Header, IDC 10-Pin	
	Twin Motor		H2	5.08mm Pluggable Terminal Header	
	Connector				
	Twin Battery		H3	5.08mm Pluggable Terminal Header	
	Connector			. 55	
	TSOP1236		IR Module	1	
	IN FERRITE		L1	FERRITE CHIP 120 OHM 800mA 0805	
			LI	PERRITE CHIP 120 OHIVI 600IIIA 0605	
	CHIP 120 OHM				
	800mA 0805			4	
	Inductor		L2, L3	INDUCTOR POWER SHIELD 33UH 2.6A	
				SMD	
	10uH		L4, L7	INDUCTOR POWER 10UH 2.0A SMD	
	Header 3		P1	Header, 3-Pin	
	Header 11		P4, P5, P6, P7	Header, 11-Pin	
	Header 3X2		P11	Header, 3-Pin, Dual row	
	Header 2		P12	Header, 2-Pin	
	ZXM61N02F		Q1, Q3, Q4, Q5, Q6	20V N-channel enhancement mode	
				MOSFET	
	ZXM61P02F		Q2	20V P-channel enhancement mode	
				MOSFET	
	10k		R1, R2, R3, R6, R10, R11, R12, R13,	RES 10.0K OHM 1/10W 1% 0603 SMD	
			R14, R15, R16, R26, R27, R28, R29, R30,		
			R33, R36, R37, R40, R41		
	4R7		R5	RES 4.7R 1/10W 5% 0603 SMD	
	330R		R7	RES 330 OHM 1/10W 1% 0603 SMD	
	100R		R8, R32, R34, R35, R38, R39	RES 100 OHM 1/10W 1% 0603 SMD	
	2k2		R9	RES 2.2K OHM 1/10W 5% 0603 SMD	
	180R		R17, R19, R20, R21, R22, R23, R24, R25	RES 1800HM 1/10W 1% 0603 SMD	
	680R		R18	RES 680 OHM 1/10W 1% 0603 SMD	
	150R		R42, R43	RES 150 OHM 1/10W 1% 0603 SMD	
	FSM2JSMA		S1	DPST SMD Switch	
	MCP130T-		U1	Microcontroller Supervisory Circuit with	
	300I/TT			Open Drain Output, 3-Pin SOT-23,	
	000011			Industrial Temperature, Tape and Reel	
	CN741 C 47		110		
	SN74LS47		U2	SN74LS47	
	HDSM-541C		U3	2 character 7 segment display	
	TL2575-33IKTTR		VR_3.3		
	TL2575-05IKTTR		VR_5	1	
roved		Notes			