







Comment	Description	Designator	Footprint	LibRef	Quantity
JUMPER	Header, 2-Pin	12V	6410-02	Header 2	1
2uF	Capacitor (Semiconductor SIM Model)	C1, C3	CC3216-1206	Cap Semi	2
3n3F	Capacitor (Semiconductor SIM Model)	C2	CC3225-1210	Cap Semi	1
100nF	Capacitor (Semiconductor SIM Model)	C5, C8	CC2012-0805	Cap Semi	2
4.7uF	Capacitor (Semiconductor SIM Model)	C6	CC3216-1206	Cap Semi	1
470nF	Capacitor (Semiconductor SIM Model)	C7, C9	CC2012-0805	Cap Semi	2
4.7uF	Polarized Capacitor (Surface Mount)	C10	CR3216-1206	Cap Pol3	1
10uF	Polarized Capacitor (Surface Mount)	C11, C12, C13	CR3216-1206	Cap Pol3	3
100uF	Polarized Capacitor (Axial)	C14	EIA7343	Cap Pol2	1
1N4148	High Conductance Fast Diode	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10	MURS120	Diode 1N4148	10
DIR	Typical RED GaAs LED	DIR	SMD _LED	LED	1
HIP4081	80V/2.5A Peak, High Frequency Full Bridge FET Driver	IC1	SOP-20	HIP4081	1
MOTOR	Header, 2-Pin	JP3	T-CONNECTOR(F)	Header 2	1
Inductor	Inductor	L1	CR3225-1210	Inductor	1
MOTOR	Header, 2-Pin	MOTOR	LOCKEDPWRHDR	Header 2	1
SIG	Header, 6-Pin	P1	HDR1X7	Header 7	1
SIG	Header, 4-Pin	P2	LOCKEDHDR-4W	Header 4	1
Robocon Logo		Project1	Robocon_Logo	Robocon Logo	1
PWM	Typical RED GaAs LED	PWM	SMD _LED	LED	1
IRLR3705Z	HEXFET N-Channel Power MOSFET	Q1, Q2, Q3, Q4, Q5, Q6, O7, O8	TO-252AA	IRLR3705	8
33R	Semiconductor Resistor	R1, R2, R3, R4, R7, R8, R9, R10	CR2012-0805	Res Semi	8
100k	Semiconductor Resistor	R5, R6	CR2012-0805	Res Semi	2
1k	Semiconductor Resistor	R11, R12	CR2012-0805	Res Semi	2
330R	Semiconductor Resistor	R14, R15	CR2012-0805	Res Semi	2
SN74LS02D	Quadruple 2-Input Positive-NOR Gate	U1	D014	SN74LS02D	1
LTC1263	5V to 12V	U2	SO-8	MAX662A	1
12-24V	Header, 2-Pin	VIN	T-CONNECTOR(M)	Header 2	1