

RGBSaber_Control							
Description	Qty	Value	Package	Manufacturer	Manufacturer Part #	Supplier	Supplier Part #
Microcontroller	1		SSOP-28	Microchip	PIC18F2221-I/SS	DigiKey	PIC18F2221-I/SS-ND
DC/DC Converter	1		Through Hole	Murata Power Solutions	OKR-T/3-W12-C	DigiKey	811-2115-5-ND
Switching Transistor	3		SOT-223	Zetex Semiconductor	FZTA14TA	DigiKey	FZTA14CT-ND
Feedback Resistor	1	250Ω	0805				
Red BJT Base Resistor	1	6.67kΩ	0805				
Green/Blue BJT Base Resistor	2	3.3kΩ	0805				
Pull-up Resistor	2	10kΩ	0805				
Bulk Capacitor	1	100μF	Electrolytic				
Decoupling Capacitor	2	0.01μF	0805				
Programming Header	1		Male Header, 5 pin				
Peripheral Board Header	1		JST ZH TE 7-pin	JST America	B7B-ZR-SM4-TF	DigiKey	455-1686-1-ND
Battery Header	1		MTA100-2	Tyco Electronics		DigiKey	640456-2
Luxeon LED Header	1		JST ZH SE 4-pin	JST America	S4B-ZR-SM4A-TF	DigiKey	455-1695-1-ND

RGBSaber_Periph1 (Slide Potentiometer Style)							
Description	Qty	Value	Package	Manufacturer	Manufacturer Part #	Supplier	Supplier Part #
Slide Potentiometer	1	10kΩ	Through Hole	Alpha	RA2043F-20-10EB1-A5K	Mouser	312-219AF-5K
Tactile Switch SP NO	1		12mm x 12mm	Omron	B3F-4050	DigiKey	SW413-ND
9mm Dia. SwitchCap	1			Omron	B32-1610	DigiKey	SW847-ND
RGB Indicator Common Anode	1		PLCC4	Cree	CLV1A-FKB	DigiKey	CLV1AFKB-CJ1M1F1BB7R4S3CT-ND
Peripheral Board Header	1		JST ZH TE 7-pin	JST America	B7B-ZR-SM4-TF	DigiKey	455-1686-1-ND

RGBSaber_Periph2 (Rotary Potentiometer Style)							
Description	Qty	Value	Package	Manufacturer	Manufacturer Part #	Supplier	Supplier Part #
Rotary Potentiometer	1	10kΩ	Through Hole	Bourns			
Tactile Switch SP NO	1		6mm x 6mm				
RGB Indicator Common Anode	1		Discrete 5mm				
Peripheral Board Header	1		MTA100-7	Tyco Electronics			640456-7

Other								
Description	Qty	Value	Package	Manufacturer	Manufacturer Part #	Supplier	Supplier Part #	
Ribbon Cable 28 AWG	1 ft							
Peripheral Cable Plug	2		JST ZH 7-pin	JST America	ZHR-7	DigiKey	455-1200-ND	
Battery Pack Plug	1		MTA100-2	Tyco Electronics		DigiKey	3-640621-2	
Luxeon LED Plug	1		JST ZH 4-pin	JST America	ZHR-4	DigiKey	455-1202-ND	
7.4V Li-Ion Battery Pack								
2.1mm DC Barrel Jack								
SPST Power Switch	1							
Luxeon LED: Red	1		3mm x 4.5mm	Phillips		LuxeonStar	LXM2-PD01-0050	
Luxeon LED: Green	1		3mm x 4.5mm	Phillips		LuxeonStar	LXML-PM01-0070	
Luxeon LED: Royal Blue	1		3mm x 4.5mm	Phillips		DigiKey	LXML-PR01-0350	
MCPCB LED Tri-Star Base	1			LuxeonStar		LuxeonStar	LXB-RT20B	
Carclo Tri-Lens 22deg	1			Carclo Performance Plastics		LuxeonStar	10506	