



Bill of Materials

Date: 10/20/2010

Project: RGBSaber

Version: v1.5

RGBSaber_Control				
Description	Part Number	Package	Qty	Manufacturer
Microcontroller	PIC18F2221	SSOP-28	1	Microchip
DC/DC Converter	OKR-T/3-W12	Through Hole	1	Murata Power Solutions
Switching Transistor	FZTA14	SOT223	3	Zetex
250Ω Resistor	MC1206S4F2550T5E	1206	1	Multicomp
3.3kΩ Resistor	ERJ-8GEYJ332V	1206	1	Panasonic ECG
6.67kΩ Resistor	ERJ-8ENF6651V	1206	2	Panasonic ECG
10kΩ Resistor	ERJ-8GEYJ103V	1206	2	Panasonic ECG
100uF Bulk Capacitor	ECA-1EM101	Electrolytic	1	Panasonic ECG
0.1uF Capacitor	GRM188F51E104ZA01D	0805	2	Murata Electronics
0.01uF Capacitor	GRM216R71H103KA01D	0806	3	Murata Electronics
Programming Header	77315-424-05LF		1	FCI
Peripheral Board Header	640456-7	MTA100	1	Tyco Electronics/AMP
Battery Header	640456-2	MTA100	1	Tyco Electronics/AMP
RGB LED Header	640456-4	MTA100	1	Tyco Electronics/AMP

r_Periph1 (Slide Potentiometer Style)				
Description	Part Number	Package	Qty	Manufacturer
Slide Potentiometer	56P5194	Discrete	1	Bourns
Tactile Switch	TL1105LF160Q	Discrete	1	E-Switch
RGB Indicator LED CA	17137 OP	Discrete	1	Ming
Board Header	640456-7	MTA100	1	Tyco Electronics/AMP

Periph2 (Rotary Potentiometer Style)				
Description	Part Number	Package	Qty	Manufacturer
Rotary Potentiometer	3310Y-001-103L	Discrete	1	Bourns
Tactile Switch	TL1105LF160Q	Discrete	1	E-Switch
RGB Indicator LED CA	17137 OP	Discrete	1	Ming
Board Header	640456-7	MTA100	1	Tyco Electronics/AMP

Other				
Description	Part Number	Package	Qty	Manufacturer
Ribbon Cable				
Peripheral Cable Plug	3-640443-7	MTA100	1	Tyco Electronics/AMP
Battery Pack Plug	3-640621-2	MTA100	1	Tyco Electronics/AMP
RGB LED Plug	3-640621-4	MTA100	1	Tyco Electronics/AMP

7.4 Li-Ion Battery Pack			1	
2.1mm DC Barrel Socket			1	
SPST Power Switch			1	
RGB Luxeon LED			1	