

Power Budg

Team Number:	205
Project Name:	Sound and night light
Version:	1

All Major Components	Component Name	Part Number	SupplyVoltageRange
	Photo Resistor	1528-161-ND	0 - 100V
	Curiosity Nano	PIC18F7Q43	+5V
	Op-Amp	MCP6004	+1.8 - 6V
	5V regulator	LM7805CV	+5 - 24V
+5V Power Rail	Component Name	Part Number	SupplyVoltageRange
	Photo Resistor	1528-161-ND	+5V
	Curiosity Nano	PIC18F7Q43	+5V
	Op-amp	MCP6004	+5V
Regulator	+5V regulator	LM7805CV	+5V
Total			
External Power Source 1	Component Name	Part Number	SupplyVoltageRange
Power Source 1 Selection	Wall power adapter	WSU060-2000	100-240 VAC
Power Rails Connected to External Power Source 1	+5V Regulator	LM7805	5V
Total Remaining Cu			

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#	AbsoluteMaximumCurrent (mA)	TotalCurrent(mA)	Unit
1	1	1	mA
1	500	500	mA
1	2	2	mA
1	100	100	mA
#	AbsoluteMaximumCurrent (mA)	TotalCurrent(mA)	Unit
1	1	1	mA
1	500	500	mA
1	2	2	mA
		0	mA
		0	mA
	<i>Subtotal</i>	503	mA
	<i>Safety Margin</i>	25%	
	<i>Total Current Required on +5V Rail</i>	628.75	mA
1	1500	1500	mA
<i>al Remaining Current Available on +5V Rail</i>		871.25	mA
Output Voltage			
e	AbsoluteMaximumCurrent (mA)	TotalCurrent(mA)	Unit
+5.9V	2000	2000	mA
	1500	1500	mA
<i>rrrent Available on External Power Source 1</i>		500	mA