

All Major Components	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)	Unit
	Curiosity Nano	PIC18F57Q43	1.7-5.1 V	1	500	500	mA
	MCP6004 Op Amp	MCP6004-I/P	5 V	1	1	1	mA
	Photoresistor	NSL-5162-ND	5 V	1	1	1	mA
+5V Power Rail	Component Name	Part Number	Supply Voltage Range	#	Absolute Maximum Current (mA)	Total Current (mA)	Unit
	Curiosity Nano	PIC18F57Q43	1.7-5.1 V	1	500	500	mA
	MCP6004 Op Amp	MCP6004-I/P	5 V	1	1	1	mA
	Photoresistor	NSL-5162-ND	5 V	1	11	11	mA
						0	mA
					<i>Subtotal</i>	512	mA
					<i>Safety Margin</i>	25%	
					<i>Total Current Required on +5V Rail</i>	640	mA
<i>Regulator or Source Choice</i>	LM7805T Linear Regulator	LM7805T	5 V	1	1000	1000	mA
					<i>Total Remaining Current Available on +5V Rail</i>	360	mA
External Power Source 1	Component Name	Part Number	Supply Voltage Range	Output Voltage	Absolute Maximum Current (mA)	Total Current (mA)	Unit
Power Source 1 Selection	9 V battery	N/A	7.6V-8.7		5000	5000	mA
Power Rails Connected to External Power Source 1	+5V Regulator	LM7805	(range)	1	1000	1000	mA
						4000	mA
					<i>Total Remaining Current Available on External Power Source 1</i>		