

Bill of Materials

Team: P11462

Revision: 1

	Item	Part Description	Supplier	Part #	Quantity	Prototype			10,000 Unit Lot		Lead Time	Owner	Status	Comments
						Unit Price	Total Price	As Used	Unit Price	Total Price				
Mechanical	1	Beam Material (0.5x2.75x12 1018CRS)	McMaster	8910K961	1	\$22.44	\$22.44	\$13.09		\$0.00	2 weeks	Jeff		
	2	Heat Sink	Heatsink USA	E004	1	\$16.33	\$16.33	\$5.44		\$0.00	2 weeks	Brad		
	3	10-32 Cap Screw (.75 in. long) (Pack of 25)	McMaster	91355A079	1	\$8.31	\$8.31	\$3.99		\$0.00	2 weeks	Brad		
	4	Thermal Blanket (24" x 25' x 1/8")	Cotronics Corp	370-1	1	\$79.95	\$79.95	\$0.00		\$0.00	4 weeks	Jared		
	5	18 gauge sheet metal	SMC Metal		1		\$0.00	\$0.00		\$0.00	4 weeks	Brad		
	6	Fan	Allied Electronics	997-0881	1	\$4.20	\$4.20	\$4.20		\$0.00	2 weeks	Jared		
	7	Thermal Paste	AOS Technologies	52039 (XT-3)			\$0.00	\$0.00		\$0.00	3 weeks	Jeff		
			Timtronics	Red Ice 611			\$0.00	\$0.00		\$0.00	2 weeks	Jeff		
	8	Stainless Steel Washers (Per 100)	McMaster	90313A200	1	\$6.89	\$6.89	\$0.48		\$0.00	2 weeks	Brad		
	9	1/4 in. diameter rod (5 in. long)	McMaster	1327K115	1	\$3.68	\$3.68	\$3.68		\$0.00	2 weeks	Brad		
	10	Control Knob	McMaster	6094K88	1	\$2.36	\$2.36	\$2.36		\$0.00	2 weeks	Brad		
	11	Cotter Pin (.042 in. wire diameter - fits 1/4 shaft)	McMaster	98335A034	1	\$5.17	\$5.17	\$0.05		\$0.00	2 weeks	Brad		
	12	Spring - 1.25 in. long - 5.22 lb/in. (pack 12)	McMaster	9657K155	1	\$6.58	\$6.58	\$0.55		\$0.00	2 weeks	Brad		
13	4-40 Cap Screw (.25 in. long) (Pack of 50)	McMaster	91306A311	1	\$8.10	\$8.10	\$0.32		\$0.00	2 weeks	Brad			
Electrical	1	Thermoelectric	China	TEP1-1264-1.5	1	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	6 weeks	Tom		
	2	Rechargeable AA Ni-MH Battery (4 pack)	Zeikos (Amazon.com)	ZE-4AA	2	\$2.49	\$4.98	\$3.11	\$2.49	\$4.98	2 weeks	Fahad		
	3	Low Loss Power Path Controller	Linear Technology	LTC4412ES6#TR	1	\$1.93	\$1.93	\$1.93	\$1.36	\$1.36	3 weeks	Tom		
	4	P channel MOSFET	Digikey	FDN306P	2	\$0.55	\$1.10	\$1.10	\$0.24	\$0.49	2 weeks	Tom		
	5	Diode	Allied Electronics	1N914	2	\$0.01	\$0.03	\$0.03	\$0.01	\$0.02	2 weeks	Tom		
	6	Capacitor 10µF 50V electrolytic	Rubycon	50YK10M5X11	1	\$0.04	\$0.04		\$0.03	\$0.03	2 weeks	Fahad	C1	
	7	Capacitor 0.1µF ceramic	Vetco	SMBCAP-CER0603-0.1UF50V	5	\$0.49	\$2.45		\$0.06	\$0.30	2 weeks	Fahad	C2, C4, C5, C7, C8	
	8	Capacitor 10µF 7V electrolytic			1		\$0.00			\$0.00	2 weeks	Fahad	C3	
	9	Diode	Tayda	1N4148	1	\$0.01	\$0.01			\$0.00	2 weeks	Fahad	D1	
	10	HLMP 4700 red LED			2		\$0.00			\$0.00	2 weeks	Fahad	D2, D3	
	11	Diode	Allied Electronics	1N5400	1	\$0.09	\$0.09		\$0.05	\$0.05	2 weeks	Fahad	D6	
	12	Diode	Allied Electronics	1N4001	1	\$0.08	\$0.08		\$0.03	\$0.03	2 weeks	Fahad	D7	
	13	NPN General Purpose Amplifier	Talon Electronics	2N3904	2	\$0.09	\$0.18		\$0.06	\$0.12	2 weeks	Fahad	Q2, Q3	
	14	Resistor 63.4KΩ	Galco Industrial Electronics	RN55D6342F	1	\$0.06	\$0.06			\$0.00	2 weeks	Fahad	R1	
	15	Resistor 6.04KΩ	Galco Industrial Electronics	RN55D6041F	1	\$0.06	\$0.06			\$0.00	2 weeks	Fahad	R2	
	16	Resistor 30.1KΩ	Galco Industrial Electronics	RN55D3012F	1	\$0.26	\$0.26			\$0.00	2 weeks	Fahad	R3	
	17	Resistor 100KΩ (Qty 10)	Tayda	100K OHM 1/4W 5%	1	\$0.10	\$0.10	\$0.02		\$0.00	2 weeks	Fahad	R5, R6	
	18	Resistor 10KΩ (Qty 10)	Tayda	10K OHM 1/4W 5%	1	\$0.10	\$0.10	\$0.02		\$0.00	2 weeks	Fahad	R7, R15	
	19	Resistor 1.0KΩ	Jameco Electronics	CF1/2W102JRC	1	\$3.00	\$3.00	\$0.03		\$0.00	2 weeks	Fahad	R8, R9	
	20	Resistor 2KΩ	Galco Industrial Electronics	2W-68K-5%-MO	1	\$0.07	\$0.07			\$0.00	2 weeks	Fahad	R10	
	21	Resistor 1Ω (Qty 10)	Tayda	1 OHM 1/4W 5%	1	\$0.10	\$0.10	\$0.01		\$0.00	2 weeks	Fahad	R16	
	22	Resistor 240Ω (Qty 10)	Tayda	240 OHM 1/4W 5%	1	\$0.10	\$0.10	\$0.01		\$0.00	2 weeks	Fahad	R17	
	23	Resistor 510 KΩ (Qty 10)	Tayda	510K OHM 1/4W 5%	1	\$0.10	\$0.10	\$0.01		\$0.00	2 weeks	Fahad	R33	
	24	Resistor 562 KΩ	Newark	26R4203	1	\$0.03	\$0.03		\$0.03	\$0.03	2 weeks	Fahad	RB1	
	25	Resistor 187 KΩ	Newark	01P3731	1	\$0.05	\$0.05		\$0.03	\$0.03	2 weeks	Fahad	RB2	
	26	Keystone RL0703-5744-103-S1			1		\$0.00			\$0.00	2 weeks	Fahad	RT	
	27	Resistor 3.57KΩ (Qty 100)	Jameco Electronics	MFR-25FRF-3K57	1	\$0.90	\$0.90		\$0.80	\$0.80	2 weeks	Fahad	RT1	
	28	Resistor 2.67KΩ	Galco Industrial Electronics	RN55D2671F	1	\$0.06	\$0.06			\$0.00	2 weeks	Fahad	RT2	
	29	Fast Charge IC	Texas Instruments	bq2003	1		\$0.00		\$2.20	\$2.20	3 weeks	Fahad	U1	
	30	Voltage Regulator	Tayda	LM317T	1	\$0.21	\$0.21			\$0.00	2 weeks	Fahad	U2	
	31	Voltage Regulator	Newark	72K8848	1	\$0.16	\$0.16		\$0.08	\$0.08	2 weeks	Fahad	U3	
Legend														
Ready to order						Shipping:				\$18.51				
Know what needs to be done and have XX hrs of work														
Do not know all info and estimate time is XX hrs.														
						Tax								
						Total Cost	\$188.25			\$18.51				