

Total\_WattMeter\_control\_3\_3

RefDes	Value	Quantity	Mouser P/N	Digi-Key P/N	BuyDisplay	Type
BT1	2032	1		2057-BH-124A-1-ND		BAT Coin
C1, C12, C13, C15, C17, C19, C20, C21, C22, C26, C27, C3, C31, C32, C4, C5, C6, C7, C9	1uf	19	603-CC206KRX7R9BB104			CAP_1206
C10, C11, C23, C24, C25	100pf	5	710-885012008004			CAP_1206
C14, C16	10uf	2	810-CNC5LX7R1E106K16			CAP_1206
C18	.47uf	1	81-GRM31C5C1E474JE1L			CAP_1206
C2	330uf	1	661-EMVE350ADA331MJA			CAP200RP
C28, C29	.01uf	2		445-2331-1-ND		CAP_1206
D1, D2	NTS245FT1G	2		NTS245SFT1GOSCT-ND		DIODE_0805
D17	1N4148WS_R1_00001	1	1241-1N4148WSR100001			DIODE_1206
D3	Clamp Diode	1	1781-2N7002-T1-E3			SMBJ18CA
Fuse1	3 Amp	1	1781-2N7002-T1-E3			PTC fuse
IC1	2 Watt Audio amp	1	1870-IS31AP4996GRLS2R			IS31AP4996-GRLS2-TR
IC3	Softpot	1	1579-MCP4561-502E/MS			MCP4561
IC4	TLO84C	1	1595-TL084CDR			Quad Op Amp
IC5	+5V DC	1	1926-LM7805CT/NOPB			LM7805CT
IC7	LMH6647MF/NOPB	1	1926-LMH6647MF/NOPB			Op Amp
J1	I/O connections	1			40 Pin 1.0mm	FFP-40
J10, J6	I2C X 2	2			8 Pin 1.0mm	FFP-8
J11	12 to 16 Volts DC In	1	1490-PJ-102AH			3pin
J12, J5	Power Button	2			8 Pin 1.0mm	FFP-8
J3	TFT Screen	1			40 Pin 1.0mm	FFP-40
J4	Speaker	1	1538-22-28-9034			1X3H
J7	RGB Bottom	1			8 Pin 1.0mm	FFP-8
J9	USB Input	1	1575-8212200210000101			2 pin Header
L1, L2	680uh	2	963-LB3218T681K			IND_1206
P16, P22, P26, P27		4				Ground Mounting Hole
PB1	Program	1	1101-TS6511R1606-EV			SWITCHSPSTNC
PB2	On/Off	1	1101-TS6511R1606-EV			SWITCHSPSTNC
Q1	DMP3099L-7	1	1621-DMP3099L-7			P-Ch ENH MOSFET
Q2, Q3	2N7002-T1-E3	2	2781-2N7002-T1-E3			NMOSFET
R1	1k	1		311-1.00KHRCT-ND		RES_0805
R10, R12	33.2k	2	652-CR1206FX-3322ELF			RES_1206
R11, R18, R32, R33, R38, R5	100k	6	791-RMC1/8-104JTP			RES_1206
R13	10k	1	1603-RC0603FR-0710KL			RES_0805
R19	22k	1	1791-RMC1/8-223JTP			RES_1206
R2, R4	4.7k	2	652-CR0603FX-4701ELF			RES_0805
R20	470k	1	1791-RMC1/8-474JTP			RES_1206
R24, R35	20k	2	791-RMC1/8-203JTP			RES_1206
R26	1M	1	791-RMC1/8-105JTP			RES_1206
R27, R34, R36, R9	1k	4	652-CR1206-JW-102ELF			RES_1206
R37, R7, R8	4.7k	3	652-CR1206-JW-472ELF			RES_1206
R6	10k	1	652-CR1206JW-103ELF			RES_1206
U1	MIMXRT1062	1				Lockable Teensy 4.1 w/PSRAM
U2	+3.3 V	1	1511-LD1117AS33			LD1117AS33TR
U4	Power control	1	1942-IRF7319TRPBF			IRF7319TRPBF

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Cost	
0.395	0.395
0.21	3.99
0.093	0.465
0.713	1.426
0.47	0.47
0.718	0.718
0.22	0.44
0.299	0.598
0.071	0.071
0.222	0.222
0.972	0.972
0.6	0.6
1.08	1.08
0.32	0.32
1.67	1.67
1.88	1.88
0.35	0.35
0.17	0.34
0.597	0.597
0.17	0.34
0.35	0.35
0.166	0.166
0.17	0.17
1.19	1.19
0.089	0.178
	0
0.24	0.24
0.24	0.24
0.157	0.157
0.5	1
0.009	0.009
0.014	0.028
0.007	0.042
0.007	0.007
0.007	0.007
0.007	0.014
0.007	0.007
0.007	0.014
0.007	0.007
0.008	0.032
0.007	0.021
0.008	0.008
28.65	28.65
0.931	0.931
1.23	1.23
	51.642