2CK1A

ECE2C Exp #3a (Audio Amplifier), F09

Qty	Shop Part Number	Vendor Name	Vendor Part Number	Description	Unit Price	Extnd Price
1	SPKR4	MCM Electronic	52-165	4" Speaker, Ferrite Magnet, 2W Peak, 8 Ohm, 140 Hz-10 Khz	2.620	2.62
1	386	Jameco	24126	LM 386-1 Low Volt Audio Amp 325mW / 6V	0.480	0.48
1	358	Jameco	23966	LM 358 Low Power Dual Op Amp 1MHz BW	0.210	0.21
2	8MSS	Jameco	51626	8 Pin IC Socket Machined Solder	0.219	0.44
1	HWR10	Digi-Key	10H-ND	10 Ohm 1/2W, Resistor	0.030	0.03
2	QWR2.2K	Mouser	291-2.2K-RC	2.2K Ohm 1/4W, Resistor	0.010	0.02
8	QWR10K	Mouser	291-10K-RC	10K Ohm 1/4W, Resistor	0.020	0.16
2	QWR100K	Jameco	691340	100K Ohm 1/4W, Resistor	0.020	0.04
1	TPOTT10K	Newark	32K8196	10K Ohm Thumb Wheel Potentiometer Single Turn	0.950	0.95
1	TPOTT20K	Newark	32K8202 /	20K Ohm Thumb Wheel Potentiometer Single Turn	0.800	0.80
1	470MR	Newark	91F6292	470ufd 50V, I Radial I Electrolytic Capacitor	0.750	0.75
1	100MR	Jameco	158394	100ufd 50V, I Radial I Electrolytic Capacitor	0.150	0.15
2	10MR	Jameco	29891	10ufd 50V, I Radial I Electrolytic Capacitor	0.060	0.12
4	1MR	Jameco	29831	1ufd 50V, I Radial I Electrolytic Capacitor	0.070	0.28
1	CC.033	Mouser	539-CK05333K	.033ufd Ceramic Capacitor [aka: 33,000pf, 33.0nf, 333]	0.276	0.28
2	CC.022	Mouser	539-CK05223K	.022ufd Ceramic Capacitor [aka: 22,000pf, 22nf, 223]	0.253	0.51
1	CC.1	Mouser	539-CK05104K	.1ufd Ceramic Capacitor [aka: 100,000pf, 100.0nf, 104]	0.300	0.30
2	4148	ESS	1N4148	1N 4148 75 Volts Switching Diode	0.030	0.06
5	FEET	All Electronics	RF-52	Stick-on polyurethane Feet 0.25" diameter 0.07" high. Price	0.050	0.25
1	VBQ	Shop		4.5" x 4.25" Plain Quarter Vectorboard	3.800	3.80
1	3.5MMSJP	All Electronics	MJW-12	3.5mm Stereo Jack PCB Mount w/ 2 NC Switches	0.290	0.29
1	3.5MMSPATCH	Jameco	228494	3.5mm Stereo Plug 6 Ft Patch cord	1.520	1.52
1	9VBC	Jameco	11280	9V Battery Clip	0.220	0.22
1	9VBH	Jameco	105794	9V Battery Holder	0.190	0.19
1	9VA	McMaster-Carr	71455K68	9V Alkaline Battery	2.000	2.00
1	DSSTAPEH	Mc Master-carr	7626A116	1/2 "Wide Double Sided Sticky Foam Tape .031" per inch	0.060	0.06
15	FC1	Mouser	574-T42-1/M	Flea Clip Individual	0.059	0.89
.5	22SWBK	Newark		22 AWG Wire per foot, Black, Stranded	0.110	0.06
.5	22SWR	Newark		22 AWG Wire per foot Red, Stranded	0.110	0.06
1	PB3	McMaster-Carr	1928T16	5x8x1.5mm Open-Top Polyethylene Bag Flat, 1.5-MIL, 5"	0.033	0.03
1	PB1	McMaster-Carr	1928T11	3x3x1.5mm Plastic Kit Bags	0.022	0.02
1	PB4	McMaster-Carr		9x12x1.5mm Plastic Kit Bags	0.030	0.03
				Goes with Lab Kit 2CK1B		
					Total	$17.60

2CK1B

ECE2C Exp #3b (Microphone & Pre-Amplifier), F09

Qty	Shop Part Number	Vendor Name	Vendor Part Number	Description	Unit Price	Extnd Price
1	MICAA2C	Mouser	254-FN004-RO	Microphones COND MIC 9.7X6.7MM	1.311	1.31
1	353	Jameco	22939	LF 353N Dual BIFET Op Amp TL082	0.290	0.29
1	8MSS	Jameco	51626	8 Pin IC Socket Machined Solder	0.219	0.22
2	QWR2.2K	Mouser	291-2.2K-RC	2.2K Ohm 1/4W, Resistor	0.010	0.02
2	QWR10K	Mouser	291-10K-RC	10K Ohm 1/4W, Resistor	0.020	0.04
1	QWR33K	Mouser	291-33K-RC	33K Ohm 1/4W, Resistor	0.020	0.02
1	TPOTT10K	Newark	32K8196	10K Ohm Thumb Wheel Potentiometer Single Turn	0.950	0.95
1	1MR	Jameco	29831	1ufd 50V, I Radial I Electrolytic Capacitor	0.070	0.07
1	10MR	Jameco	29891	10ufd 50V, I Radial I Electrolytic Capacitor	0.060	0.06
2	100MR	Jameco	158394	100ufd 50V, I Radial I Electrolytic Capacitor	0.150	0.30
2	CC.1	Mouser	539-CK05104K	.1ufd Ceramic Capacitor [aka: 100,000pf, 100.0nf, 104]	0.300	0.60
1	CC.001	Mouser	539-CK05102K	.001ufd Ceramic Capacitor [aka: 1000pf, 1.0nf, 102]	0.220	0.22
1	VBSP1	All Electronics	PC-4	3" x 4" Vectorboard with Solder Pads	2.300	2.30
1	PB2	McMaster-Carr	1928T14	4x6x1.5mm Plastic Kit Bags	0.030	0.03
.5	22SWBN	Newark		22 AWG Wire per foot Brown, Stranded	0.110	0.06
.5	22SWO	Newark		22 AWG Wire per foot Orange, Stranded	0.110	0.06
				Goes with lab kit 2CK1A		

Total **$6.54**

2CK2

ECE2C Exp #1 & #2 (MOS Amplifiers), F09

Qty	Shop Part Number	Vendor Name	Vendor Part Number	Description	Unit Price	Extnd Price
2	4007	Jameco	12597	CD 4007 Dual Pair Inverters (MC14007)	0.276	0.55
4	7000	Newark [Jameco]	89K1814 [119423PS]	2N7000 MOSFET N Channel 1W 35A	0.050	0.20
4	1MR	Jameco	29831	1ufd 50V, I Radial I Electrolytic Capacitor	0.070	0.28
8	10MR	Jameco	29891	10ufd 50V, I Radial I Electrolytic Capacitor	0.060	0.48
4	100MR	Jameco	158394	100ufd 50V, I Radial I Electrolytic Capacitor	0.150	0.60
4	QWR100	Jameco	690620	100 Ohm 1/4W, Resistor	0.020	0.08
4	QWR220	ESS	QCF25J + <value>	220 Ohm 1/4W, Resistor	0.010	0.04
1	QWR470	Jameco	690785	470 Ohm 1/4W, Resistor	0.010	0.01
4	QWR10K	Mouser	291-10K-RC	10K Ohm 1/4W, Resistor	0.020	0.08
1	QWR33K	Mouser	291-33K-RC	33K Ohm 1/4W, Resistor	0.020	0.02
2	QWR47K	Jameco	691260	47K Ohm 1/4W, Resistor	0.020	0.04
1	QWR68K	ESS	QCF25J + <value>	68K Ohm 1/4W, Resistor	0.010	0.01
4	QWR100K	Jameco	691340	100K Ohm 1/4W, Resistor	0.020	0.08
1	QWR1M	All Electronics	291-1M	1M Ohm 1/4W, Resistor	0.020	0.02
1	TPOTT10K	Newark	32K8196	10K Ohm Thumb Wheel Potentiometer Single Turn	0.950	0.95
2	TPOTT100K	Newark	32K8197	100K Ohm Thumb Wheel Potentiometer Single Turn	0.950	1.90
1	PB2	McMaster-Carr	1928T14	4x6x1.5mm Plastic Kit Bags	0.030	0.03
1	3904	All Electronics	2N3904	2N3904 NPN Silicon Gen Purpose 40V 200mA	0.120	0.12
1	3906	Arrow	2N3906	2N3906 PNP Silicon Gen Purpose 40V 200mA	0.100	0.10
				Kit Wil Be Used for lab 2 3 (3904, 3906)		

Total **$5.59**

2CK4

ECE2C Exp #4 (Infrared PWM Transmitter & Detector), F09

Qty	Shop Part Number	Vendor Name	Vendor Part Number	Description	Unit Price	Extnd Price
1	555	Jameco	27422	LM 555N Timer 100ns Rise/Fall Time (1826 - 0180)	0.240	0.24
1	393	Jameco	24281	Low Power Low Offset Voltage Dual Comparator	0.350	0.35
1	353	Jameco	22939	LF 353N Dual BIFET Op Amp TL082	0.290	0.29
1	3904	All Electronics	2N3904	2N3904 NPN Silicon Gen Purpose 40V 200mA	0.120	0.12
1	3906	Arrow	2N3906	2N3906 PNP Silicon Gen Purpose 40V 200mA	0.100	0.10
1	LEDFOTO1	Jameco	373001	LED Phototransistor Infrared T-1 3/4 CE30.0uA EC5.0uA	0.290	0.29
1	LEDFOTO2	Digi-Key	751-1008-ND	LED Infra Red Photodiode Pin Sphere Side View	0.910	0.91
1	LEDIR3	Digi-key	751-1203-ND	LED Infrared Emitter 940nm 1.35V 100mA	0.360	0.36
1	QWR1K	Jameco	690865	1K Ohm 1/4W, Resistor	0.010	0.01
4	QWR3.3K	ESS	QCF25J + <value>	3.3K Ohm 1/4W, Resistor	0.010	0.04
3	QWR47K	Jameco	691260	47K Ohm 1/4W, Resistor	0.020	0.06
2	QWR10K	Mouser	291-10K-RC	10K Ohm 1/4W, Resistor	0.020	0.04
1	CC.001	Mouser	539-CK05102K	.001ufd Ceramic Capacitor [aka: 1000pf, 1.0nf, 102]	0.220	0.22
1	CC.0022	Mouser	539-CK05222K	.0022ufd Ceramic Capacitor [aka: 2200pf, 2.2nf, 222]	0.230	0.23
1	CC.0047	Mouser	CK05472K	.0047ufd Ceramic Capacitor [aka: 4700pf, 4.7nf, 472]	0.300	0.30
2	CC.01	Mouser	539-CK05103K	.01ufd Ceramic Capacitor [aka: 10,000pf, 10.0nf, 103]	0.220	0.44
1	TPOTT10K	Newark	32K8196	10K Ohm Thumb Wheel Potentiometer Single Turn	0.950	0.95
1	1MR	Jameco	29831	1ufd 50V, I Radial I Electrolytic Capacitor	0.070	0.07
1	100MR	Jameco	158394	100ufd 50V, I Radial I Electrolytic Capacitor	0.150	0.15
2	8MSS	Jameco	51626	8 Pin IC Socket Machined Solder	0.219	0.44
1	VBSP6	All Electronics	PC-3	2.5" x 3" Vectorboard with Solder Pads	1.730	1.73
1	PB2	McMaster-Carr	1928T14	4x6x1.5mm Plastic Kit Bags	0.030	0.03

Total $7.37

2CK5

ECE2C EXP #5 (Infrared PWM Receiver), F09

Qty	Shop Part Number	Vendor Name	Vendor Part Number	Description	Unit Price	Extnd Price
2	347	Jameco	22904	LF 347N Quad JFET Input Op Amp (LF147)	0.450	0.90
4	4148	ESS	1N4148	1N 4148 75 Volts Switching Diode	0.030	0.12
2	5485	Mouser	512-2N5485	2N5485 N Channel JFET Hi Freg.	0.100	0.20
8	QWR1K	Jameco	690865	1K Ohm 1/4W, Resistor	0.010	0.08
2	QWR2.2K	Mouser	291-2.2K-RC	2.2K Ohm 1/4W, Resistor	0.010	0.02
3	QWR4.7K	Jameco	691024	4.7K Ohm 1/4W, Resistor	0.020	0.06
4	QWR47K	Jameco	691260	47K Ohm 1/4W, Resistor	0.020	0.08
6	QWR10K	Mouser	291-10K-RC	10K Ohm 1/4W, Resistor	0.020	0.12
2	QWR100K	Jameco	691340	100K Ohm 1/4W, Resistor	0.020	0.04
1	TPOTT2K	Mouser	652-3352W-1-202LF	2K Ohm Thumb Wheel Potentiometer Single Turn	1.090	1.09
1	CC1.0	Jameco	81509CK	1.0ufd Ceramic Capacitor [aka: 1000,000pf 1000nf, 105]	0.380	0.38
1	CC.001	Mouser	539-CK05102K	.001ufd Ceramic Capacitor [aka: 1000pf, 1.0nf, 102]	0.220	0.22
2	CC.0022	Mouser	539-CK05222K	.0022ufd Ceramic Capacitor [aka: 2200pf, 2.2nf, 222]	0.230	0.46
2	CC.047	Mouser	CK05BX473K	.047ufd Ceramic Capacitor [aka: 47,000pf, 47nf, 473]	0.300	0.60
1	CC.01	Mouser	539-CK05103K	.01ufd Ceramic Capacitor [aka: 10,000pf, 10.0nf, 103]	0.220	0.22
8	CC.1	Mouser	539-CK05104K	.1ufd Ceramic Capacitor [aka: 100,000pf, 100.0nf, 104]	0.300	2.40
2	100MR	Jameco	158394	100ufd 50V, I Radial I Electrolytic Capacitor	0.150	0.30
1	PB2	McMaster-Carr	1928T14	4x6x1.5mm Plastic Kit Bags	0.030	0.03

Total $7.32