

George Washington University

Department of Electrical and Computer Engineering

ECE 2110 Circuit Theory

	<u>Value</u>	<u>Units</u>	<u>Name</u>	<u>Dielectric</u>	<u>Rating</u>	<u>Value</u>	<u>Tol</u>	<u>Qty</u>	<u>Manufacturer</u>	<u>Manufacturer Part #</u>	<u>Vendor</u>	<u>Vendor Part #</u>
1	10	pF	Capacitor	Ceramic Disc	50 V	20	2	Kemet	C322C100K5G5TA	Mouser	80-C322C100K5G	
2	33	pF	Capacitor	Ceramic Disc	50 V	20	2	Xicon	140-50N5-330J-RC	Mouser	140-50N5-330J-RC	
3	68	pF	Capacitor	Ceramic Disc	50 V	20	2	Vishay	D680J25SL0L6UJ5R	Mouser	594-D680J25SL0L6UJ5R	
4	100	pF	Capacitor	Ceramic Disc	50 V	20	2	Xicon	140-50P2-101K-RC	Mouser	140-50P2-101K-RC	
5	330	pF	Capacitor	Ceramic Disc	50 V	20	2	Vishay	D331K20Y5PL6TJ5R	Mouser	594-D331K20Y5PL6TJ5R	
6	680	pF	Capacitor	Ceramic Disc	50 V	20	2	Xicon	140-50P2-681K-RC	Mouser	140-50P2-681K-RC	
7	820	pF	Capacitor	Ceramic Disc	500 V	20	2	Vishay	S471K29X7RP63K5R	Mouser	594-S471K29X7RP63K5R	
8	1000	pF	Capacitor	Ceramic Disc	50 V	10	2	Xicon	21RX510-RC	Mouser	21RX510-RC	
9	2200	pF	Capacitor	Ceramic Disc	100 V	10	2	Vishay	VY1222M47Y5UQ63V0	Mouser	72-VY1222M47Y5UQ63V0	
10	4700	pF	Capacitor	Ceramic Disc	100 V	10	2	Vishay	D472K33Y5PH63L2R	Mouser	594-D472K33Y5PH63L2R	
11	8200	pF	Capacitor	Ceramic Disc	100 V	5	2	Vishay	562R5GAD82	Mouser	75-562R5GAD82	
12	0.01	uF	Capacitor	Ceramic Disc	50 V	10	2	Vishay	D103Z25Z5VF63L6R	Mouser	594-D103Z25Z5VF63L6R	
13	0.022	uF	Capacitor	Ceramic Disc	100 V	10	2	Vishay	K223K15X7RF53L2	Mouser	594-K223K15X7RF53L2	
14	0.047	uF	Capacitor	Ceramic Disc	100 V	10	2	Vishay	MKT1813347255	Mouser	75-MKT1813347255	
15	0.082	uF	Capacitor	Ceramic Disc	100 V	5	2	Cornell Dubilier	150823K630HC	Mouser	539-150823K630HC	
16	0.33	uF	Capacitor	Ceramic Disc	100 V	20	2	AVX	TAP334K050SCS	Mouser	581-TAP334K050SCS	
17	0.68	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Nichicon	UPJ1HR68MDD	Mouser	647-UPJ1HR68MDD	
18	1	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Leion	REA010M2CBK-0511P	Mouser	140-REA010M2CBK-0511P	
19	4.7	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Leion	RGA4R7M1HBK-0511G	Mouser	140-RGA4R7M1HBK-0511G	
20	6.8	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Cornell Dubilier	685CKH050M	Mouser	598-685CKH050M	
21	10	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Kemet	ESW106M025AC3AA	Mouser	80-ESW106M025AC3AA	
22	33	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Leion	REA330M1VBK-0611P	Mouser	140-REA330M1VBK-0611P	
23	100	uF	Capacitor	Aluminum Electrolytic	49 V	20	2	Leion	REA331M1HBK1320P	Mouser	140-REA331M1HBK1320P	
24	220	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Cornell Dubilier	227CKS010M	Mouser	598-227CKS010M	
25	330	uF	Capacitor	Aluminum Electrolytic	50 V	20	2	Panasonic	EEU-EB1H331	Mouser	667-EEU-EB1H331	
26	1	uH	Inductor	Molded Ferrite Core	1070 mA	10	1	Bourns	78F1R0K-RC	Mouser	542-78F1R0K-RC	
27	4.7	uH	Inductor	Molded Ferrite Core	24 mA	10	1	Faston	SMCC/N-4R7K-01	Mouser	434-SMCC/N-4R7K-01	
28	100	uH	Inductor	Molded Ferrite Core	160 mA	10	1	Bourns	78F101J-RC	Mouser	542-78F101-RC	
29	1	mH	Inductor	Molded Ferrite Core	70 mA	10	1	Bourns	78F102J-RC	Mouser	542-78F102J-RC	
30	10	uH	Inductor	Molded Ferrite Core	24 mA	10	1	Faston	SMCC/N-100K-02	Mouser	434-SMCC/N-100K-02	
31	10	mH	Inductor	Molded Ferrite Core	380 mA	10	1	Bourns	9250A-105-RC	Mouser	6529250A-105-RC	
32	47	uH	Inductor	Molded Ferrite Core	195 mA	10	1	Bourns	78F470J-RC	Mouser	542-78F470J-RC	
33	470	uH	Inductor	Molded Ferrite Core	92 mA	10	1	Bourns	9250A-474-RC	Mouser	652-9250A-474-RC	
34	4.7	mH	Inductor	Molded Ferrite Core	31 mA	10	1	Faston	SMCC-472J-02	Mouser	434-SMCC-472J-02	
35	General		Op-Amp LM741	Silicon	500 mWdc		15	Instruments	LM741CN/NOPB	Mouser	926-LM741CN/NOPB	
36	Red		LED	GaAlAs	20 mA		2	Lite-On	LTL-4221N	Mouser	859-LTL-4221N	
37	Green		LED	InGaAIP	20 mA		2	Lite-On	LTL-4231N	Mouser	859-LTL-4231N	
38	Yellow		LED	InGaAIP	20 mA		2	Lite-On	LTL-10253W	Mouser	859-LTL-10253W	
39	Green		LED BAR				2	Lumex	SSA-LXB10GW-GF/LP	Mouser	696-SSA-LXB10GW	
40			Speaker				1	DB Unlimited	SP500208-1	Mouser	497-SP500208-1	
41			Audio Amplifier LM386				4	Instruments	LM386N-4/NOPB	Mouser	926-LM386N-4/NOPB	
42			Audio Adapter				1	CUI Devices	SJ1-3513N	Mouser	490-SJ1-3513N	
43			Audio Cable				1	Kobiconn	172-2107	Mouser	172-2107	
44	Colors		Wire	9 meter Copper - Solid	22 gauge		1					