

■ must have
■ very useful
■ special purpose
on order
out of stock
hard to get

 !!!!!

basic electronics lab small parts list

bin	part	resistors	specs	sub	sub specs	notes
		1	1 to 10, 2.2 3.3 4.7			
		2	1 2 3 4			
3a		3,3	10 22 33 47 68 83			
3a		4.7				
3a		6.8				
		8				
		10				
35		11r 5 watt maybe more				
		15				
3a		22				
		33				
		39				
3a		47				
		51				
		68				
3a		82				
4a		100				
		120				
		150				
		180				
4a		220				
		270				
4a		330				
		390				
4a		470				
		510				
		560				
4a		680				
4a		820				
		1k				
		1.2k				
		1.5k				
		1.8				
5a		2k				
5a		2.2k				
		2.7k				
		3k				
5a		3.3k				
		3.9k				
5a		4.7k				
		5.1k				
		5.6k				
5a		6.8k				
5a		8.2k				
6a		10k				
		12k				
6a		18k				
		22.2k				
		27k				
6a		33k				
		39k				
6a		47k				
		56k				
		51k				
		56k				
6a		68k				
6a		82k				
7a		100k				
		120k				
		180k				
8a		220k				
		270k				
8a		330k				
8a		470k				
		1m				
8a		2.2m				
8a		2.7m				
		3.3m				
		4.7m				
		10m				
		pots				
1a		1k				
1a		4k				
1a		4k7				
		20k				
		50k				
		caps				
		ceramic disk				
1		1.5pf	20			
2		2.7pf	3			
3		12 pf	5			
4		18pf	10			
		22pF				
5		27pf	3			
6		33pf	5			
7		47pf	12			
8		120pf	20			
9		150pf	20			
10		3n9f	20			
11		5n6f	20			
		10nf				
12		22nf	8			
		100nf				
		220nf				

13	1uf	25		
14	10uf	15		
15	12uf	20		
16	15uf	20		
17	47uf	8	check values	
	100uf	3		
18	150uf	3	check values	
19	180uf	4	check values	
20	220uf	7	check values	
21	470uf	8	check values	
22	470 uf	10	check values	
23	100milf	3	check values	
	MKT/MKP 1nF, 10 nF, 100nF, 470 nF, 1uF, 2.2uF and low and high voltage versions			
	electrolytic			
	1uf	10		
	2.2uf	10		
	4.7uf	10		
	10uf	6		
	56a	6		
	47uf	6		
	100uf	4		
	220uf	4		
	470uf	4		
	1000uf	2		
24-30	some tantylum caps var,		7 types proly	
	inductors			
	1 500uH			buck charge pumps
	transistors			
34	2n2222		(NPN, 800mA, 40V, Ft=300 MHz)	sub
	2n2907	20	(PNP, 600mA, 60V, Ft=200 Mhz)	BC337 100
	2n3904 npn		200mA, 40V, Ft=300 MHz	BC547
32	2n3906 pnp		200mA, 40V, Ft=250 MHz	BC557 20
	BC55-	15	1A 60v 180mHz	(NPN, 100mA, 30V)
	BC139/140			(PNP, 100mA, 30V)
	BC182A	5	100mA 30 V	NPN
	BC203A	10	100mA 25V	PNP
31	BC327	30	800mA 40V Ft=	PNP
	BC328	10	800mA 25V Ft=	PNP
	BC337	100	800mA 40V Ft=300Mhz	NPN
	BC566A			
	BC556	10	100mA 30 V	PNP
	BC557	15	100mA 30 V	PNP
33	BC558	20	100Ma 40V	PNP
	MJE2955/3055	10		power
	MPS2907A		800mA 30V	PNP
	TIP33x		(power NPN, 10A, 40-100V)	
	TIP34x		(power PNP, 10A, 40-100V)	
	TIP120		5A	darlington pair
	TIP120 - TIP122		(NPN Darlington, 5A, 60-100V)	
	TIP125 - TIP127		(PNP Darlington, 5A, 60-100V)	
	TIP2955/3055			power
	S2000AF	2	power 8A 1500 v	NPN
	SF359	3	100ma 300V hF trans 60mhz	NPN
	mosfets			
	3 mal 2n7000		(N-Channel, 60V, 200 mA, 1.2Ohm)	
	BS170		(N-Channel, 60V, 500 mA, 1.2Ohm)	
	FQP30N06L		60v, 30A	works w 5v logic well
	IRF510		(Power N-Channel, 100V, 5.6A, 0.54Ohm)	power
	IRF540			
	IRF820			
	poss A2	9	poss mosfet....	NPN
2a	diodes			
	1n4001		have enough	
	1n4002		(1A, 1V drop)	h power
	1n4003			
	1n4004			
	1n4005			
	1n4006			
	1n4007			h power
	1n4148		(200mA, 0.7V drop)	
	1n914			
	shottky			
	1N5817 - 1N5819		(1A, 0.4V-0.9V drop)	
	1N5820 - 1N5822		(3A, 0.4V-0.9V drop)	
	MBR735, MBR745		(7.5A, 0.48-0.68V drop)	
	zener			
	BZX79		(0.5W power dissipation, 37 types with voltages from 2.4V-75V)	
	op amps etc			
	555 timer	1		
	4n35 opto coupler	2		
	L 293D push pull quad driver w diode	1		
	Mcp3008 4/8 channel 10bit adc converters	2		
	SN74HC595N	2	8 bit shift register with 3state outputs	
	lm741 opamp			
	LM324		single supply, temp compensated, 1Mhz, 20-40mA out,	
	TL071/072/074		out range Gnd + 5mV -> +Vcc - 1.5V	
	ULN2003			driver chip

LTC1052			chopper
56a		(single supply, 0.7Mhz, 20mA out, out range Gnd + 5mV-> +Vcc - 2)	
TL071-TL074		(single/dual supply, 3Mhz, out range -Vcc + 1.5V -> +Vcc - 1.5V)	
CA3140		(single/dual supply, 4.5Mhz, out range -Vcc + 1.4V -> +Vcc - 2V)	
TS922		(high out current, single/dual supply, rail to rail, 4MHZ, 80mA out, out range -Vcc + 0.1V -> +Vcc -0.1V)	
comparators			
LM393		(2x, single/dual supply, 1.5Mhz)	
LM339		(4x, single/dual supply, 1.5Mhz)	
LM319		(2x, single/dual supply, 6Mhz)	
TL431		v ref	
7805/ 317 voltage regulators			
7812			
7815			
7824			
Buck-boost ICs			
misc			
5 mal 8DIP 20DIP 28DIP sockets			
crystals 32k 16 mhz			
copper clad perf board			
male and female headers			
push buttons			
switches			
DIP switches			
displays			
battery clips			
ICs			
TI A225D C3	38	possible FM amp demodulator	
4516	17	quad bilateral switch	
4017	10	decade counter 10 outputs	
4030	1	quad xor gate	
4538	1	Dual retriggerable precision monostable multivibrator	
4060	26	14-stage binary ripple counter and oscillator	
4077	34	Quad 2-input XNOR gate	
14011	5	Quad 2-input NAND gate	
14012	8	Dual 4-input NAND gate	
14040	15	12-stage binary ripple counter	
14526	8	Programmable 4-bit binary down counter	
14556	2	Dual 1-of-4 decoder/demultiplexer active LOW output	
14093	1	Quad 2-input Schmitt trigger NAND gate	
Siemens SDA20562-A503	11	POSS MICROCONTROLLER	
s+B8508 COP421L-JRL/N	15	UNK	
TDA4881 151200 DSD9323 1Y	1	VIDEO MONITOR CONTOLLER	
MC1455P 1 L8410	1	POSS 12 BIT PARITY CHECKER GENERATOR	

need spec caps to that 6pF, 12.5pF,

battery clips