

Component	Value / Type	Description	Designator	Quantity
CAPACITOR	100nF	100nF Ceramic cap	C1	1
	47nF	47nF ceramic	C10, C11, C18, C19, C26, C27	6
	220nF	220nF ceramic	C12, C13, C20, C21	4
	1uF	Elco 1uF	C14	1
	1uF	WCAP-ATG8 Aluminum Electrolytic Capacitor, Radial, THT, D5 x H11mm, 1uF, 10V	C15, C23, C31	3
	47uF	Elco 47uF	C16, C24	2
	10nF	10nF ceramic	C2, C3	2
	4,7uF	Elco 4,7uF	C22	1
	1uF	WCAP-ATG8 Aluminum Electrolytic Capacitor, Radial, THT, D5 x H11mm, 1uF, 10V	C25, C33	2
	68nF	68nF ceramic	C28, C29	2
	22uF	Elco 22uF	C30, C32	2
	1uF	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0201, NP0 Class I, 1uF, 25VDC	C34	1
	100nF	WCAP-CSGP Multilayer Ceramic Chip Capacitor, General Purpose, size 0201, NP0 Class I, 100nF, 25VDC	C35	1
	100nF	Elco 100nF	C4	1
	1uF	WCAP-ATG8 Aluminum Electrolytic Capacitor, Radial, THT, D5 x H11mm, 1uF, 10V	C5	1
	330nF	330nF ceramic	C6, C7	2
	100uF	Elco 100uF	C8	1
	47uF	WCAP-ATG8 Aluminum Electrolytic Capacitor, Radial, THT, D5 x H11mm, 47uF, 10V	C9, C17	2
DIODE	1N4148	Diode Standard 75V 200mA Surface Mount SOD- 523F	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16	16
OPAMP	TL071CP	J-FET Amplifier 1 Circuit 8-SO	IC1	1
	TL072CP	Dual, 30-V, 3-MHz, high slew rate (13- V/Âµs), In to V+, JFET-input op amp	IC2, IC3, IC4, IC5	4
VOLTAGE REGULATOR	LM317	Standard Regulator Pos 1.2V to 37V 0.25A 3-Pin(3+Tab) TO- 220 Tube	IC6	1
CONNECTOR	PJ-313 3,5mm jack	3,5cm jack	J1	1

	2 pin block connector	HEADER, 2 CONTACTS, 1 ROW, THROUGH HOLE, 2.54 MM; Connector Systems:Board to-Board; Pitch Spacing:2.54mm; No. of Rows:1Rows; No. of Contacts:2Contacts; Contact Termination Type:Through Hole; Product Range:HTSW Series; Gender:Header RoHS Compliant: Yes	J2, J22	2
	2 pin header	2 pin header Jumper	J3,J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21	19
LED	LED 2x5x7	Green 569nm LED Indication - Discrete 1.9V	LED05, LED06, LED07, LED08, LED09, LED15, LED16, LED17, LED18, LED19, LED25, LED26, LED27, LED28, LED29, LED35, LED36, LED37, LED38, LED39, LED45, LED46, LED47, LED48, LED49, LED55, LED56, LED57, LED58, LED59, LED65, LED66, LED67, LED68, LED69, LED75, LED76, LED77, LED78, LED79	40
	LED 2x5x7	Yellow 589nm LED Indication - Discrete 1.9V	LED02, LED03, LED04, LED12, LED13, LED14, LED22, LED23, LED24, LED32, LED33, LED34, LED42, LED43, LED44, LED52, LED53, LED54, LED62, LED63, LED64, LED72, LED73, LED74	24
	LED 2x5x7	Red 623nm LED Indication - Discrete 1.9V	LED00, LED01, LED10, LED11, LED20, LED21, LED30, LED31, LED40, LED41, LED50, LED51, LED60, LED61, LED70, LED71	16

RESISTOR			R1, R2, R3, R10, R11, R14, R15, R17, R22, R23, R26, R27, R33, R39, R40, R44, R45, R56, R57, R61, R62	21
	4,7k	4,7k Resistor 0805		
	75k	75k Resistor 0805	R12	1
	390	390 Resistor 0805	R13	1
	150k	150k Resistor 0805	R16	1
	43	43Ohm Resistor 0805	R20	1
	16,2k	16,2k Resistor 0805	R21	1
	56k	75k Resistor 0805	R24	1
	301	301 Resistor 0805	R25	1
	120k	120k Resistor 0805	R28	1
	8,2k	8,2k Resistor 0805	R29	1
	16,2k	16.2k Resistor 0805	R36	1
	82	82Ohm Resistor 0805	R37	1
	33k	33k Resistor 0805	R38, R53	2
	100	100Ohm Resistor 0805	R4	1
	30k	30k Resistor 0805	R41	1
	150	150 Resistor 0805	R42	1
	56k	56k Resistor 0805	R43	1
	39k	4,7k Resistor 0805	R5	1
	36k	4,7k Resistor 0805	R50, R66	2
	160	160Ohm Resistor 0805	R54	1
	68k	68k Resistor 0805	R55	1
	47k	47k Resistor 0805	R58	1
	240	240 resistor 0805	R59	1
	22k	22k Resistor 0805	R6, R30, R47	3
	91k	91k Resistor 0805	R60	1
	36k	36k Resistor 0805	R63	1
	252	252 Resistor 0805	R69	1

	1,2k	1,2k Resistor 0805	R7, R18, R31, R35, R49, R52, R65, R68	8
	910	910 Resistor 0805	R8, R19, R32, R34, R48, R51, R64, R67	8
	20k	20k Resistor 0805	R9	1
DISPLAY DRIVER	LM3915	LM3915 Dot/Bar Display Driver	U1, U2, U3, U4, U5, U6, U7, U8	8
TRIMMER	10k	10 kOhms 0.5W, 1/2W PC Pins Through Hole Trimmer Potentiomete r Cermet 1 Turn Top Adjustment	VR1	1
	500k	500 kOhms 0.5W, 1/2W PC Pins Through Hole Trimmer Potentiomete r Cermet 1 Turn Top Adjustment	VR2	1