

S-100 Z80 CPU Board V1.1A

Updated on 10-30-2017 by Richard Pope

1/15/2016

I have?	I Need?	Reference Designator	Value	BOM_Qty	OrderQty	Part_No #	Each	Source	Footprint	Info
	-1	C1	47uF 16V Tan Radial Cap	1		94123	1.25	Jameco	C1V7	
	-45	C2, C4-13, C15-41, C44-50	0.1 uF, 50 Volt, Monolithic Z5U, Radial	45		25523	\$ 0.19	Jameco	C2	multiples of 10
	-1	C42	22 uF, 16 Volt, 10%, Radial Tantalum	1		94094	\$ 0.69	Jameco	C1V7	
	-2	C43	33 uF, 25 Volt, 10%, Radial Tantalum	2		2044074	\$ 2.19	Jameco	C1V7	
	-1	D6	1N4148 (1N914)	1		36311	\$ 0.06	Jameco	D3	multiples of 10
	-2	D1	LED, Red Diffused, T-1 3/4, 19mcd, 635nm	2		206519	\$ 0.19	Jameco	LEDV	multiples of 10
	-2	D2	LED, Yellow Diffused, T-1 3/4, 29mcd, 585nm	2		697549	\$ 0.09	Jameco	LEDV	multiples of 10
	-1	D3	LED, Green Diffused, T-1 3/4, 29mcd, 585nm	1		333227	\$ 0.12	Jameco	LEDV	multiples of 10
	-1	D4	LED, Orange, T-1 3/4, 50mcd, nm	1		107393	\$ 0.12	Jameco	LEDV	multiples of 10
	-3	D5, 7-8	LED, Blue, T-1 3/4, 50mcd, 468nm	3		2234071	\$ 0.69	Jameco	LEDV	multiples of 10
	-5	JP1-3, JP5-6, JP10	Jumper, 2 Position, Unshrouded Header 2.54mm Solder Straight	5		160882	\$ 0.79	Jameco	SIL-2	order 40 Pin strips, cut to fit only need 1 for all
	-1	JP8	Jumper, 3 Position, Unshrouded Header 2.54mm Solder Straight	1		160882	\$ 0.79	Jameco	SIL-3	order 40 Pin strips, cut to fit only need 1 for all
	-6	P2-3, P8-10, P39	Jumper, 2x4, 8Pin Unshrouded Header 2.54mm Solder Straight	6		109517	0.59	Jameco	SIL-4	order 36x2 Pin strips, only need 1 for all
	-1	P4	Jumper, 2x2 Position, 4 Pin Unshrouded Header 2.54mm Solder Straight	1		2200701	\$ 0.79	Jameco	pin_array_2X2	order 36x2 Pin strips, only need 1 for all
	-1	P36	Jumper, 2x3 Position, 6 Pin Unshrouded Header 2.54mm Solder Straight	1		2200701	\$ 0.79	Jameco	pin_array_3x2	order 36x2 Pin strips, only need 1 for all
	-2	R1-2	220 Ohm 5% 1/4W	2		691420	0.099	Jameco	R3	multiples of 10
	-1	R5	330 Ohm 5% 1/4W	1		690742	0.099	Jameco	R3	multiples of 10
	-4	R6-9	680 Ohm 5% 1/4W	4		690822	0.099	Jameco	R3	multiples of 10
	-3	R11, R39, R41	4.7K Ohm 5% 1/4W	3		691024	0.099	Jameco	R3	multiples of 10
	-4	R35-38	10 Ohm 5% 1/4W	4		690380	0.099	Jameco	R3	multiples of 10
	-1	R40	1K Ohm 5% 1/4W	1		690865	0.099	Jameco	R3	multiples of 10
	-7	RR2-6, RR8-9	1K Ohm SIP 10 pin, 9 Resistors	7		97877	\$ 0.29	Jameco	r_pack9	
	-1	RR7	4.7K Ohm SIP 10 pin, 9 Resistors	1		24660	\$ 0.29	Jameco	r_pack9	
	-3	SW2-3	DIP Switch, 8-Pos, On-Off, SPST, Raised Rocker	3		696917	\$ 1.39	Jameco	16dip300	
	-1	Q1	2N3904 NPN General Purpose	1		38359	\$ 0.09	Jameco	TO92-INVERT	multiples of 10
	-1	U1	Z80B, 6MHz 5V, Dip-40	1		692-Z84C0006PEG	\$ 4.96	Mouser	40dip600	
	-4	U2, U3, U12, U22	74F373	4		595-SN74F373N	\$ 0.89	Mouser	20dip300	
	-1	U4	74F153	1		595-SN74F153N	\$ 0.62	Mouser		
	-1	U8	74F157	1		595-SN74F157AN	\$ 0.57	Mouser		

-3	U9, U10, U11	74LS165	3	46877	\$ 0.65	Jameco	16dip300	
-1	U13	27C64 EPROM, 8KX8, 150 NANOSECONDS, 5 VOLT, DIP-28	1	39829	\$ 4.25	Jameco	28dip600	
-2	U14-15	74LS682N	2	309260	\$ 1.95	Jameco	20dip300	
-4	U18	74LS244	4	308312	\$ 0.69	Jameco	20dip300	
-1	U21	74F244	1	595-SN74F244N	\$ 0.89	Mouser		
-2	U23, 45	74F02	2	595-SN74F02N	\$ 0.62	Mouser	14dip300	
-2	U25, U38	74F04	2	595-SN74F04N	\$ 0.62	Mouser	14dip300	
-2	U26, U37	74LS05	2	46341	\$ 0.59	Jameco	14dip300	
-1	U27	74LS139	1	46623	\$ 0.69	Jameco	16dip300	
-4	U29, U32-34	74LS74	4	48004	\$ 0.49	Jameco	14dip300	
-1	U30	74F74	1	595-SN74F74N	\$ 0.62	Mouser		
-1	U35	7F32	1	595-SN74F32N	\$ 0.62	Mouser	14dip300	
-1	U39	74F08	1	595-SN74F08	\$ 0.62	Mouser	14dip300	
-1	U40	74F00	1	595-SN74F00N	\$ 0.62	Mouser	14dip300	
-1	U41	74LS27	1	47378	\$ 0.99	Jameco	14dip300	
-1	U42	Clock Oscillator, DIP-14, 5V, 2 MHz	1	27924	\$ 1.49	Jameco	14dip300	
-1	U43	74LS11	1	46439	\$ 0.69	Jameco	14dip300	
-1	U46	Clock Oscillator, DIP-14, 5V, 4 MHz	1	27967	\$ 1.95	Jameco	14dip300	
-1	U48	LM323K TO-3 3amp	1	23667	\$ 6.95	Jameco		
-1		Heat sink for above TO-3	1	1114579	\$ 1.49	Jameco	TO-3 7.8C/W	
-1		TO-3 Mounting kit	1	2227292	\$ 1.49	Jameco		
-2	DIP14S (U42,U46)	DIP Socket, Osc, 4-Pin	2	133006	\$ 0.65	Jameco	14dip300	
-13	DIP14	DIP Machined Socket 14-Pin	13	37197	\$ 0.65	Jameco	14dip300	multiples of 10
-1	DIP16	DIP Machined Socket 16-Pin	1	37402	\$ 0.75	Jameco	16dip300	multiples of 10
-5	DIP20	DIP Machined Socket 20 (0.300")	5	38623	\$ 0.89	Jameco	20dip300	multiples of 10
-1	DIP28	DIP Machined Socket 28 (0.600")	1	40329	\$ 1.25	Jameco	28dip600	
-1	DIP40	DIP Machined Socket 40 (0.600")	1	112311	\$ 0.49	Jameco	40dip600	
-2	Card Ejector	Circuit Board Card Ejector, 0.062 inch, Nylon, White, BIVAR PN# CP-06 WE	2	749-CP-06-WE	\$ 0.49	Mouser		
	The 10 MHz is also available from Mouser. The part number is: 692-Z84C0010PEG. The price is the same.							