

## S-100 Bus Display Board V1.21

4/11/2019

I have?	I Need?	Ref	Value	BOM_Qty	OrderQty	Part_No	Each	Source	Footprint	Info
		C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C38, C40, C41, C105	0.1 uF, 50 Volt, Monolithic X7R, Radial	34	40	544921	\$ 0.19	Jameco	C2	multiples of 10
		C58, C59	Capacitor, 1 uF, 35 Volt, 10%, Radial, 1%	2	2	545596	\$ 0.49	Jameco	C1V5	
		C2, C3, C4, C21, C22, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57	10 uF, 25 Volt, 10%, Radial Tantalum	21	21	545641	\$ 0.49	Jameco	C1V5	order qty = 10+
		C1	33 uF, 25 Volt, 10%, Radial Tantalum	1	1	33785	\$ 0.95	Anchor-Electronics	C1V5	
		D2, D3, D4, D5, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D79, D80, D81, D82, D83	LED, Uni-Color Red, 60mcd, 635nm, T-1 3/4	20	20	790081	\$ 0.12	Jameco	LEDV	order qty = 10+
		D20, D21, D22, D23, D24, D25, D28, D29, D30, D31, D36, D37, D40, D41, D42, D43, D44, D45, D48, D49, D50, D51, D56, D57	LED, Red Diffused, 65mcd, 660 nm, T1	24	24	333851	\$ 0.12	Jameco	LEDV	order qty = 10+
		D26, D27, D32, D33, D34, D35, D38, D39, D46, D47, D52, D53, D54, D55, D58, D59, D68	LED, Uni-Color Red, 75mcd, 660nm T-1 3/4	17	17	333973	\$ 0.12	Jameco	LEDV	order qty = 10+
		D1, D6, D7, D8, D72	LED, Green, 30mcd, 565nm, T-1 3/4	5	10	34761	\$ 0.15	Jameco	LEDV	order qty = 10+
		D69, D70, D71, D75, D76, D77, D78	LED, Uni-Color Yellow, 40mcd, 585nm, T1	7	10	2006705	\$ 0.07	Jameco	LEDV	order qty = 10+
		D73, D74	LED, Yellow Diffused, 55mcd, 585nm, T-1 3/4	2	2	2193985	\$ 0.25	Jameco	LEDV	
		D60, D61, D62, D63, D64, D65, D66, D67	LED, Orange Clear Lens, 320mcd, 611nm, T1	8	10	2186646	\$ 0.05	Jameco	LEDV	order qty = 10+
		P4, P5	Test_Pin, 1 Position, Unshrouded Header, Solder Straight	2		2168211	\$ 0.59	Jameco	SIL-1	order 40 Pin strips
		JP1, JP2, JP3, JP4, JP5	Jumper, 2 Position, Unshrouded Header 2.54mm Solder Straight	5		2168211	\$ 0.59	Jameco	SIL-2	order 40 Pin strips
		K1, K2	Jumper, 3 Position, Unshrouded Header 2.54mm Solder Straight	2		2168211	\$ 0.59	Jameco	SIL-3	order 40 Pin strips
		P2	Jumper, 12 Position, Unshrouded Header 2.54mm Solder Straight	1		2168211	\$ 0.59	Jameco	SIL-12	order 40 Pin strips
		R8, R10, R13, R14	180 Ohm 5% 1/4W, (CF)	4	10	690689	\$ 0.06	Jameco	R3	multiples of 10
		R3, R5	1K Ohm 5% 1/4W, (CF)	2	10	690865	\$ 0.06	Jameco	R3	multiples of 10
		R11, R12	1.2K Ohm 5% 1/4W, (CF)	2	10	690881	\$ 0.06	Jameco	R3	multiples of 10
		R6	4.7K Ohm 5% 1/4W, (CF)	1	10	691024	\$ 0.06	Jameco	R3	multiples of 10
		R4	10K Ohm 5% 1/4W, (CF)	1	10	691104	\$ 0.06	Jameco	R3	multiples of 10
		R7, R9	20K Ohm 5% 1/4W, (CF)	2	10	691171	\$ 0.06	Jameco	R3	multiples of 10
		R1, R2	330K Ohm 5% 1/4W, (CF)	2	10	691462	\$ 0.06	Jameco	R3	multiples of 10

	RR3	330 Ohm SIP 10 pin, 9 Resistors	1	1	97851	\$ 0.29	Jameco	r_pack9	
	RR1, RR2, RR4, RR6, RR7, RR8, RR10, RR11, RR12	470 Ohm SIP 10 pin, 9 Resistors	9	9	97869	\$ 0.29	Jameco	r_pack9	
	RR5, RR9	4.7K Ohm SIP 10 pin, 9 Resistors	2	2	24660	\$ 0.29	Jameco	r_pack9	
	SP1	Buzzer, Audio Piezo 2300Hz	1	1	76065	\$ 1.75	Jameco	buzzer_AL11 P_modified	
	SP2	Buzzer, Magnetic 3500Hz to 4500Hz	1	1	138713	\$ 1.99	Jameco	buzzer_AL11 P_modified	
	SW1, SW2	Switch Tactile, Single Pole Single Throw, Norm Off, Momentary On	2	2	153252	\$ 0.35	Jameco	sw_push_sm all	
	Q1	Transistor, MPS2907A (2N2907A), PNP General Purpose, 60V, 600mA, TO-92	1	1	211342	\$ 0.29	Jameco	TO92	
	Q2	Transistor, PN2222A (2N2222A), NPN Switching, 40V, 600mA, TO-92	1	1	178511	\$ 0.25	Jameco	TO92	
	U26	<b>7414</b>	1	1	7414	\$ 0.54	Anchor- Electronics	14dip300	
	U15	<b>7438</b>	1	1	7438	\$ 0.57	Anchor- Electronics	14dip300	
	U10	74LS00	1	1	74LS00	\$ 0.39	Anchor- Electronics	14dip300	
	U3, U19, U28, U36	74LS04	4	4	74LS04	\$ 0.48	Anchor- Electronics	14dip300	
	U30, U103	74LS07N	2	2	74LS07	\$ 0.60	Anchor- Electronics	14dip300	
	U18, U20, U21	74LS08	3	3	74LS08	\$ 0.28	Anchor- Electronics	14dip300	
	U35	74LS27	1	1	74LS27	\$ 0.28	Anchor- Electronics	14dip300	
	U16, U27	74LS74	2	2	74LS74	\$ 0.35	Anchor- Electronics	14dip300	
	U2, U4, U5, U6, U17, U22, U24, U25, U29, U31	74LS123	10	10	74LS123	\$ 0.46	Anchor- Electronics	16dip300	
	U7, U14, U32	74LS244	3	3	74LS244	\$ 0.59	Anchor- Electronics	20dip300	
	U8, U9, U11	74LS273	3	3	74LS273	\$ 0.52	Anchor- Electronics	20dip300	
	U12, U13	74LS374	2	2	74LS374	\$ 0.52	Anchor- Electronics	20dip300	
	U23	74LS682N	1	1	74LS682	\$ 2.30	Anchor- Electronics	20dip300	
	Vol_Reg101 (U1)	D24V25F5 (Alternate for LM323 at U101) Pololu 5V 2.5A Step-Down Voltage Regulator	1	1	D24V25F5	\$ 10.95	Pololu	SIL-5	
	U1a (Alternate for D24V25F5 at U1)	EzSBC PSU5, 5V 3A Drop-in replacement of LM323K (Alternate for LM323 at U48)	1	1	PSU5	\$ 8.95	EzSBC.com	TO3	
	U1b (Alternate for D24V25F5 at U1)	L7805CV, 5 Volt, 1.5 Amp, TO-220	1	1	924633	\$ 0.45	Jameco	TO-220	
	U1	Heat Sink, TO-220, 1.2"L x 1"W x 0.5"H (for L7805CV)	1	1	129242	\$ 0.75	Jameco	TO-220	
	U1	Screw, 6-32, 3/8" Phillips	2						

	U1	Nut, Hex, 6-32	2							
	DIP14	DIP socket 14	15	20	112214	\$ 0.14	Jameco	14dip300	order qty = 10+	
	DIP16	DIP socket 16	10	10	112222	\$ 0.20	Jameco	16dip300	order qty = 10+	
	DIP20	DIP socket 20	9	10	112248	\$ 0.17	Jameco	20dip300	order qty = 10+	