





Bill of Materials

High Pwr Bi-Polar Stepper Controller

Source Data From: HighPowerBiPolarStepperMotorSchem.SchDoc
Project: HighPowerBiPolarStepperProject.PrjPCB

Organization: University of Utah

 Creation Date:
 10/27/2012
 11:31:46 PM

 Print Date:
 27-Oct-12
 11:31:59 PM

Value	Designator	Description	Vendor	Quantity	Price	Total Price
1	R11, R13	Resistor	Taydaelectronics	2	0.01	\$0.02
1K	R1	Potentiometer	Taydaelectronics	1	0.07	\$0.0
1uF	C2	Capacitor	Taydaelectronics	1	0.03	\$0.0
2N3904	Q1	NPN General	Taydaelectronics	1	0.01	
		Purpose				\$0.0
		Amplifier				
3.3k	R2, R4	Resistor	Taydaelectronics	2	0.01	\$0.02
3.3nF	C11	Capacitor	Taydaelectronics	1	0.03	\$0.03
4.7uF	C1	Capacitor	Taydaelectronics	1	0.03	\$0.03
10k	R5, R6, R7, R9, R10, R12	Resistor	Taydaelectronics	6	0.01	\$0.00
22k	R8	Resistor	Taydaelectronics	1	0.01	\$0.0
100nF	C3, C4, C5, C8,	Capacitor	Taydaelectronics		0.03	
	C9		´			\$0.1
100uF	C13	Polarized	Taydaelectronics	1	0.03	
		Capacitor				\$0.03
		(Radial)				
220pF	C6, C7, C10	Capacitor	Taydaelectronics	3	0.03	\$0.09
240	R14, R15, R16	Resistor	Taydaelectronics		0.01	\$0.03
470	R3	Resistor	Taydaelectronics		0.01	\$0.0
1000uF	C12	Polarized	Taydaelectronics		0.03	
		Capacitor	*			\$0.03
		(Radial)				
Diode	D1	High	Taydaelectronics	1	0.01	
1N4148		Conductance	*			\$0.0
		Fast Diode				
Diode	D2, D3, D4, D5,	3 Amp General	Taydaelectronics	16	0.19	
1N5822	D6, D7, D8, D9,	Purpose	,			
	D10, D11, D12,	Rectifier				\$3.04
	D13, D14, D15,					75.0
	D16, D17					
Header 4	P1, P4, P10,	Header, 4-Pin	Taydaelectronics	4	0.04	
	P11		,			\$0.16
Header 5	P2	Header, 5-Pin	Taydaelectronics	1	0.05	\$0.0
Jumper 3	J1	Header, 3-Pin	Taydaelectronics		0.03	\$0.03
L297	U4	Stepper Motor	Taydaelectronics		2.20	
		Controller	,			\$2.20
L298N	U2, U5	Dual Full Bridge	Taydaelectronics	2	1.78	
	1,	Driver	,			\$3.50
LM555CN	U1	Timer	Taydaelectronics	1	0.14	\$0.14
PP	P3, P5, P6, P7,	Plug	Taydaelectronics		0.01	
	P8, P9	1	'			\$0.00
SN7416N	U3	Hex Inverter	Taydaelectronics	1	0.20	
		Buffer / Driver	,			
		with High-				\$0.20
		Voltage Outputs				
	1]				
White_LED	D18, D19, D20	Typical	Taydaelectronics	3	0.04	
		INFRARED	'			\$0.12
		GaAs LED				
	•			Quantitity		67 \$10.19
Approved		Notes		•		
		1				