Texas Instruments

Bill of Materials

TI DESIGNS

Designator	Value	Description	Manufacturer	MFG Part Number	Size	Quantity
C1, C2, C3, C5, C6, C10, C14, C15, C17, C19, C23	0.1uF	Capacitor	Kemet	C0805C104K5RACTU	0805	11
C4	100uF	100uF, 50V Electrolytic Cap	Panasonic	ECA-1HM101	RB .2/.4 SS	1
C7, C8, C9	.22uF	Capacitor	Kemet	C0805C224K5RACTU	0805	3
C11, C12, C13	1000 pf	Capacitor	Kemet	C0805C102K5RACTU	0805	3
C16, C18, C22	10uF	10uF, 25V Electrolytic Cap (Radial)	Nichicon	UVR1E100MDD	RB .1/.250	3
C20, C21	33pF	Capacitor	Yageo	CC0805JRNP09BN330	0805	2
D1, D10, D11	LED RED	LED RED Clear 1206 SMD	Stanley Electric & Co	HBR1105W-TR	1206	3
D2, D3, D4, D5, D6, D7, D8, D9	MBR360	3A, 60V, Schottky Diode	On Semiconductor	MBRS360T3G	SMC-W	DNI
J1	2 Pos	Terminal Block, 2 Pos, 200 mil pitch	On Shore Technology Inc.	OSTTA024163	PWR_CONN2	1
J2	4 Pos Header	Single Line, 4 Pos, 100 mil pitch Header Connector	Sullins	PBC04SAAN	HDR1X4 0.100"	1
J3	4 Pos	Terminal Block, 4 Pos, 200 mil pitch	On Shore Technology Inc.	OSTTA044163	PWR_CONN4	1
J4	USB B	USB B Style Connector	Molex	67068-8000	USB B	1
J5	14 Pos Header	Header, 7-Pin, Dual row, Right Angle	Sullins	PBC07DAAN	HDR2X7 0.100"	1
J6	9 Pos Header	CONN HEADER .100 SINGL STR 9POS	Sullins	PBC09SAAN	HDR1X9 0.100"	1
JMP1	3 Pos Header	Single Line, 3 Pos, 100 mil pitch Header Connector	Sullins	PBC03SAAN	HDR1X3 0.100"	1
JP1, JP6	3 Pos Header	Single Line, 3 Pos, 100 mil pitch Header Connector	Sullins	PBC03SAAN	HDR1X3 0.100"	2
JP2, JP3, JP4, JP5	2 Pos Header	Single Line, 2 Pos, 100 mil pitch Header Connector	Sullins	PBC02SAAN	HDR1X2 0.100"	DNI
JP7	2 Pos Header	Single Line, 2 Pos, 100 mil pitch Header Connector	Sullins	PBC02SAAN	HDR1X2 0.100"	1
L1	10mH	Ferrite Bead 1.5A 40 ohm 0805 SMD	Steward	MI0805K400R-10	0805	1
PCB1	N/A	DRV8818EVM PCB Bare Board	N/A	N/A	4.5" X 5.5"	1
R1, R2	0.1	Resistor	Bourns	CRA2512-FZ-R100ELF	2512	2
R3	2.2K	Resistor	Yageo	RC0805JR-072K2L	0805	1
R4, R6	5K	Potentiometer	Murata Electronics	PV37Y502C01B00	6.4 mm X 6.7mm	2
R5, R7	47K	Resistor	Yageo	RC0805JR-0747KL	0805	2
R8	4.7K	Resistor	Yageo	RC0805JR-074K7L	0805	1
R9, R10	330	Resistor	Yageo	RC0805JR-07330RL	0805	2
R11	196K	Resistor	Yageo	9C08052A1963FKHFT	0805	1
R12	110K	Resistor	Yageo	RC0805JR-07110KL	0805	1
R101, R102, R103, R104, R105, R106, R107, R108, R109	3300	Resistor	Yageo	RC0603FR-073K3L	0603	9
S1	Push Button	Switch	Panasonic	EVQ-11A04M	Pana_PB	1
SHNT1, SHNT2, SHNT3, SHNT4, SHNT5, SHNT6, SHNT7, SHNT8	Shunt	Shunt Jumper	Samtec	SNT-100-BK-T-H	0.100" (2.54mm)	8
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP30	Test Stake White	Glass Beaded Test Point	Kobiconn	151-101-RC	TEST POINT 0.052"	23
TP23, TP26, TP27, TP28, TP29	Test Stake Black	Glass Beaded Test Point	Kobiconn	151-103-RC	TEST POINT 0.052"	5
TP24, TP25	Test Stake Red	Glass Beaded Test Point	Kobiconn	151-107-RC	TEST POINT 0.052"	2
U1	Driver	Bipolar Stepper Motor Driver With Indexer	Texas Instruments	DRV8818PWPR	HTSSOP28	1
U2	USB Driver	USB Chip	FTDI	604-00043	28SSOP	1
U3	MSP430 MCU	MSP430 Microcontroller	Texas Instruments	MSP430F2617TPM	PQFP 64	1
U4	LDO	750 mA LDO 8-SOIC	Texas Instruments	TPS77701D	SOIC 8	1
Y1	Crystal	Crystal Oscillator	ECS Inc.	ECS-80-20-4	11.35 mm X 4.65 mm	1
N/A	Motor	High Torque (Square) Stepper Motor	Anaheim Automation, Inc.	23Y106S-LW8	NEMA 23	1

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