

RTK0EMGPLVB00000BJ BOM LIST

Product Name: Low Voltage Inverter Board for Motor Control Evaluation Board – LVI400

Board Name : Low Voltage Inverter Board (RTK0EMGPLVB00000BJ)

Schematic No : R12TU0257

Date : 2022/6/24

No.	Reference	Description	Manufacturer	PartNumber	Qty
1	D17, D18, D19, D20, D21, D22	Diode	Toshiba Semiconductor and Storage	1SS352, H3F	6
2	S1	Switch	E-Switch	100SP1T1B4M2QE	1
3	JP8, JP9, JP10	Jumper	3M	961103-6404-AR	3
4	D12	Diode	Diodes Incorporated	B2100A-13-F	1
5	D2, D3, D4, D5, D6, D7, D8, D9, D10, D11	Diode	Panjit International Inc.	BAV99W_R1_00001	10
6	Q1	Transistors	Nexperia USA Inc.	BC846B, 215	1
7	C8, C10, C29, C39, C50, C59	Capacitor	MURATA	GRT188C8YA105KE13D	6
8	C17	Capacitor	MURATA	GRM1882C1H5R0C	1
8	C13, C18, C19, C41, C42, C43, C52, C53, C62, C63	Capacitor	MURATA	GRM1882C1H101J	10
9	C2, C7, C9, C15, C24, C28, C33, C40, C46, C51, C56, C61, C66	Capacitor	MURATA	GRM188B31H104K	13
10	C1, C14	Capacitor	Murata	GRT188R61H105KE13D	2
11	C34, C47, C57, C67	Capacitor	MURATA	GRM1882C1H330J	4
12	C12	Capacitor	MURATA	GRM1882C1H331J	1
13	C3	Capacitor	MURATA	GRM1882C1H471J	1
14	C69, C70, C71	Capacitor	MURATA	GRM188B11H682K	3
15	C6	Capacitor	MURATA	GRM1882C1H821J	1
16	C5	Capacitor	MURATA	GCJ188R72A104KA01D	1
17	C36, C37	Capacitor	MURATA	GRM21BR61E106KA73L	2

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18	C35, C49, C60	Capacitor	MURATA	GRM21BC72A105KE01L	3
19	C25, C26, C27	Capacitor	MURATA	GRT31CC81C226KE01L	3
20	C16, C31	Capacitor	Würth Elektronik	8. 6508E+11	2
21	SH1	THERMAL PAD	MAC8	CW-3	1
22	S2, S3	Tactile Switches	Panasonic	EVQ-5PN04K	2
23	U4, U6, U8	IC	Renesas	HIP21011BZ	3
24	U1	IC	Renesas	ISL85601RZ	1
25	U3	IC	Renesas	ISL85003FRZ	1
26	Q2	Transistors	IXYS	IXTP96P085T	1
27	JP1, JP2, JP3, JP4, JP5, JP6	Jumper	MAC8	JR-1	6
28	R46, R52, R75, R95	Resistor	Susumu	KRL6432E-M-R010-F-T1	4
29	L2	Inductor	TDK	NLFV25T-470K-EF	1
30	JP7	Jumper	Sullins Connector Solutions	PRPC003DAAN-RC	1
31	TB1, TB2, TB3, TB4, TB5	Teraminal	MAC8	PV-3	5
32	R41, R42, R51, R67, R83	Resistor	KOA	RK73Z1JTDD	5
33	R8, R11, R38, R47, R62, R71, R81, R93	Resistor	KOA	RK73H1JTDD1000F	8
34	R16	Resistor	KOA	RK73H1JTDD1001F	1
35	R6, R9, R12, R30, R32, R34, R39, R44, R50, R63, R65, R72, R80, R82, R94, R97, R98, R99	Resistor	KOA	RK73H1JTDD1002F	18
36	R15, R17, R43, R64, R79, R96	Resistor	KOA	RK73H1JTDD1003F	6
37	R48	Resistor	KOA	RK73H1JTDD1801F	1
38	R49	Resistor	KOA	RK73H1JTDD2000F	1
39	R7, R10, R28, R29, R37, R40, R58, R59, R60, R61, R74, R76, R77, R78, R89, R90, R91, R92	Resistor	KOA	RK73H1JTDD2001F	18
40	R2, R20, R27, R54, R56, R69, R70, R85, R87	Resistor	KOA	RK73H1JTDD2002F	9
41	R19, R24, R26, R53, R57, R68, R73, R84, R88	Resistor	KOA	RK73H1JTDD2003F	9
42	R1, R100, R101	Resistor	KOA	RK73H1JTDD2701F	3
43	R22	Resistor	KOA	RK73H1JTDD3003F	1

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44	R14	Resistor	KOA	RK73H1JTDD3903F	1
45	R31, R33, R35, R36	Resistor	KOA	RK73H1JTDD4700F	4
46	R23	Resistor	KOA	RK73H1JTDD4702F	1
47	R13	Resistor	KOA	RK73H1JTDD5102F	1
48	R4, R5	Resistor	KOA	RK73H1JTDD5601F	2
49	R21	Resistor	KOA	RK73H1JTDD5602F	1
50	R18	Resistor	KOA	RK73Z2BTDD	1
51	R45, R66, R86, R103, R104	Resistor	Visha	RCG120610K0FKEA	5
52	R3	Resistor	KOA	RK73B2ETDD103J	1
53	R102	Resistor	KOA	RK73B2ETDD473J	1
54	U2, U5, U7, U9	IC	Renesas	READ2302GSP#GC3	4
55	Q3, Q4, Q5, Q6, Q7, Q8	Transistors	Renesas	RJK0703DPP-A0#T2	6
56	CNA, CNB	Connector	Sullins Connector Solutions	SBH11-PBPC-D10-ST-BK	2
57	D1, D14, D15	Diode	Rohm Semiconductor	SML-H12P8TT86C	3
58	D16	Diode	Rohm Semiconductor	SML-H12V8TT86C	1
59	D13	Diode	Rohm Semiconductor	UFZVFHTE-1712B	1
60	C4	Capacitor	Nichicon	UPM1J151MPD1TD	1
61	C11	Capacitor	Nichicon	UPW1J102MHD6	1

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