

Document reference: Nov/26/2024 Ver. 1 Company: www.st.com STMicroelectronics				Product reference: EVLDRIVE102P			 life. augmented
Index	Quantity	Reference	Part Value	Description	Package	Manufacturer	Part Number
1	1	CN1	3P Screw Terminal	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510003
2	1	CN2	2P Screw Terminal	Horizontal Entry Modular w. Rising Cage Clamp, Serie 2135 - 5.08 mm	Pitch 5.08 mm	WURTH ELEKTRONIK	691213510002
3	1	CN3	STRIP 1x2	Strip connector 2 pos, 2.54 mm	1x2 pins	WURTH ELEKTRONIK	61300211121
4	1	CN4	STRIP 1x5	Strip connector 5 pos, 2.54 mm	1x5 pins	WURTH ELEKTRONIK	61300511121
5	2	CN7, CN10	Header F 19x2	Elevated Socket Strip, 0.100" Pitch	2x19 pins	Samtec	ESQ-119-37-L-D
6	3	C1, C7, C8	4.7 uF / 25 V	SMT ceramic capacitor	Size 0603		
7	3	C2, C19, C25	47 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206069
8	4	C3, C11, C12, C13	220 nF / 100 V	SMT ceramic capacitor	Size 0805		
9	2	C4, C5	22 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206067
10	1	C6	1 uF / 50 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206126
11	2	C9, C10	100 nF / 100 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206120
12	2	C14, C15	1 uF / 100 V	SMT ceramic capacitor	Size 1206		
13	2	C16, C17	220 uF / 63 V	THT Electrolytic Capacitor	Radial THT Diam. 10 mm pitch 5 mm	WURTH ELEKTRONIK	860020775019
14	4	C18, C23, C26, C27	330 pF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012006041
15	3	C20, C21, C22	1.5 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206060
16	1	C24	220 nF / 25 V	SMT ceramic capacitor	Size 0603	WURTH ELEKTRONIK	885012206073
17	4	D1, D2, D3, D4	BAT30	Small signal Schottky diodes	SOD-523	STMicroelectronics	BAT30KFILM
18	14	JP1, JP4, JP7, JP8, JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP16, JP17, JP18	short pin 1-2	SMT solder jumper 2 ways/ 3 pads			
19	3	JP2, JP3, JP5	open	SMT solder jumper			
20	1	JP6	short	SMT solder jumper			
21	1	LED1	RED	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080RS75000
22	1	LED2	GREEN	WL-SMCW SMT Mono-color Chip LED Waterclear	Size 0805	WURTH ELEKTRONIK	150080GS75000
23	1	NTC1	10 kΩ	NTC Thermistor	Size 0603	Murata	NCP18XH103F03RB
24	6	Q1, Q2, Q3, Q4, Q5, Q6	STL220N6F7	60V, 1.2 mOhm, 120A, N-Channel, STripFET F7 Power MOSFET in a PowerFLAT 5x6 package	PowerFLAT 5x6	STMicroelectronics	STL220N6F7
25	3	R1, R2, R3	33 kΩ	SMT resistor	Size 0603		
26	2	R4, R8	2.2 kΩ	SMT resistor	Size 0603		
27	1	R5	120 kΩ	SMT resistor	Size 0603		
28	1	R6	56 kΩ	SMT resistor	Size 0603		
29	1	R7	3.3 kΩ	SMT resistor	Size 0603		
30	2	R9, R10	10 mΩ / 3 W	SMT resistor	Size 2512	Bourns	CRA2512-FZ-R010ELF
31	1	R11	47 kΩ / 0.33 W	SMT resistor	Size 0805		
32	4	R12, R13, R14, R24	4.7 kΩ	SMT resistor	Size 0603		
33	3	R15, R16, R18	330 Ω	SMT resistor	Size 0603		
34	3	R17, R20, R25	22 kΩ	SMT resistor	Size 0603		
35	3	R19, R22, R26	1.5 kΩ	SMT resistor	Size 0603		
36	1	R21	75 kΩ	SMT resistor	Size 0603		
37	1	R23	1.3 kΩ	SMT resistor	Size 0603		
38	7	R27, R29, R31, R32, R33, R34, R35	0 Ω	SMT resistor	Size 0603		
39	1	R28	1 kΩ	SMT resistor	Size 0603		
40	1	R30	6.8 kΩ	SMT resistor	Size 0603		
41	2	R36, R37	Not mounted	SMT resistor	Size 0603		
42	25	TP1, TP2, TP3, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP21, TP23, TP24, TP25, TP26, TP27, TP28		Test point SMD 50 mils (1.27 mm) SMD PAD			
43	3	TP4, TP20, TP22	TP-SMD-S1751-46R	65x128 mils SMD Hardware Test Points	SMD 65x128 Pad	HARWIN	S1751-46R
44	1	U1	STDRIVE102P	Three phase gate driver	QFN 5x5 pitch 0.4 mm	STMicroelectronics	STDRIVE102P