

Document reference: July/24/2025 Vers.1.1 www.st.com			Product reference: EVLSTDRIVEG212			 life.augmented	
STMicroelectronics							
All resistors are 1% tolerance unless otherwise indicated All capacitors are X7R or COG dielectric unless otherwise indicated							
Index	Quantity	Reference	Description	Value / Generic PN	Package	Manufacturer	Manufacturer's ordering code / Orderable Part
1	2	CN1,CN2	MMCX, VERTICAL JACK, 50 Ohm	MMCX JACK	MMCX SMD Vertical	WURTH ELEKTRONIK	66012102111404 or equivalent
2	1	C1	SMT ceramic capacitor	2.2uF/25V/X7R	Size 0805	WURTH ELEKTRONIK	885012207079 or equivalent
3	3	C2,C3,C9	SMT ceramic capacitor	220nF/25V/X7R	Size 0402		
4	4	C4,C17,C24,C30	SMT ceramic capacitor	100nF/25V/X7R	Size 0603	WURTH ELEKTRONIK	885012206071 or equivalent
5	2	C5,C6	SMT ceramic capacitor	N.M.	Size 0402		
6	5	C7,C8,C11,C12,C36	SMT ceramic capacitor	10pF/50V/NP0	Size 0603	WURTH ELEKTRONIK	885012006051 or equivalent
7	1	C10	SMT ceramic capacitor	N.M.	Size 0603		
8	8	C13,C14,C15,C16,C20,C21,C22,C23	SMT ceramic capacitor	22nF/200V/X7R	Size 0805	WURTH ELEKTRONIK	885342207006 or equivalent
9	2	C18,C19	SMT ceramic capacitor	1uF/10V/X7R	Size 0603	WURTH ELEKTRONIK	885012206026 or equivalent
10	2	C25,C31	SMT ceramic capacitor	33pF/50V/NP0	Size 0603	WURTH ELEKTRONIK	885012006054 or equivalent
11	8	C26,C27,C28,C29,C32,C33,C34,C35	SMT ceramic capacitor	220nF/250V/X7R	Size 1210	WURTH ELEKTRONIK	885342209003 or equivalent
12	1	D1	Ultrafast rectifier 1A 200V	STTH1R02ZF	SOD123Flat	STMicroelectronics	STTH1R02ZF
13	2	D2,D3	1.0A SBR SURFACE MOUNT SUPER BARRIER RECTIFIER	NM	PowerDI123	DIODES INCORPORATED	5BR1U400P1-F or equivalent
14	2	D4,D5	Low capacitance, low series inductance and resistance Schottky diodes	BAT54J	SOD-323	STMicroelectronics	BAT54JFILM
15	1	J1	Strip connector 12 pos, 2.54 mm	STRIP 1x12	1x12 pins	WURTH ELEKTRONIK	61301211121 or equivalent
16	1	J2	Terminal block T.H. 2 positions, 3.5 mm	MORSV-350-2P_screw	Pitch 3,5 mm	WURTH ELEKTRONIK	691214110002 or equivalent
17	1	J3	Strip connector 2 pos, 2.54 mm	N.M.	1x2 pins	WURTH ELEKTRONIK	61300211121 or equivalent
18	3	J4,J6,J8	Solder Pad	PAD_10D3_2MM	Diam. 10, hole diam. 3.2 mm		
19	3	J5,J7,J9	Strip connector 3 pos, 2.54 mm	STRIP 1x3	1x3 pins	WURTH ELEKTRONIK	61300311121 or equivalent
20	1	J10	Strip connector 4 pos, 2.54 mm	N.M.	1x4 pins	(WURTH ELEKTRONIK)	(61300411121 or equivalent)
21	4	M1,M2,M3,M4	WA-SMSI SMT Steel Spacer with internal Thread	1mm thick, M2		Wurth Elektronik	9774010243R or equivalent
22	2	Q1,Q2	100 V, 80 A Enhancement Mode Power Transistor	INN100EQ025A	QFN 3X5 mm	Innoscience	INN100EQ025A or equivalent
23	1	R1	SMT resistor	N.M.	Size 0402		
24	2	R2,R7	SMT resistor	3R3	Size 0402		
25	2	R3,R4	SMT resistor	OR47	Size 0402		
26	4	R5,R6,R8,R9	Metal foil low resistance chip resistors (long-side terminal)	4 mOhm	KRL2012E	SUSUMU	KRL2012E-M-R004-F-Tx or equivalent
27	8	R10,R11,R12,R22,R25,R26,R28,R31	SMT resistor	N.M.	Size 0603		
28	5	R13,R14,R18, R19,R24,R30	SMT resistor	0R	Size 0603		
29	2	R15,R16,R27	SMT resistor	10k	Size 0603		
30	1	R17	SMT resistor	39k	Size 0603		
31	1	R20	SMT resistor	205k	Size 0603		
32	1	R21	SMT resistor	120k	Size 0603		
33	2	R23,R29	SMT resistor	47R	Size 0603		
34	1	R32	SMT resistor	47k	Size 0603		
35	2	TP1,TP15	50 mils SMD PAD	TP-SMD-diam1_27mm	Copper pad		
36	15	TP2,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP13,TP14,TP16,TP17,TP18,TP19	TP for Probe	N.M.	Diam. 1.27, Hole 0.8mm		
37	2	TR1,TR2	1/4" Square Trimpot trimming potentiometer, Top Adjust	1K	3266W	Bourns	3266W-1-102LF or equivalent
38	1	U1	220V high speed half-bridge GaN gate driver	STDRIVEG212	FOQ18-V-4x5	STMicroelectronics	STDRIVEG212Q
39	1	U2	High input voltage, 85 mA LDO linear regulator	ST715MR	SOT23-5L	STMicroelectronics	ST715MR
40	1	U3	SINGLE 2 INPUT POSITIVE EXCLUSIVE OR GATE	74LVC1G86Q	SOT23-5L	Diodes Incorporated	74LVC1G86QW5-7 or equivalent
41	1	U4	2-input single supply translating EXCLUSIVE-NOR gate	74LV1T87GV	SOT23-5L	Nexperia	74LV1T87GV or equivalent