



Document reference: July/30/2025 Vers. 3.0 Company: www.st.com STMicroelectronics	Product reference: EVLGANSPIN2-3PH mainboard	 life.augmented
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All resistors are 1% tolerance unless otherwise indicated
All capacitors are X7R or COG dielectric unless otherwise indicated

#	Comment	Designator	Footprint	Quantity	Manufacturer	Order code
1	CAPC_47n_0603_X7R_50V_10%	C1_1, C1_2, C1_3, C9_1, C9_2, C9_3, C43	CAPC_0603	7	Würth Elektronik	885012206093 or equivalent
2	220n 630V	C2_1, C2_2, C2_3	FP-GRM55D-0_4-IPC_C	3	Würth Elektronik	885342214142 or equivalent
3	CAPC_220n_0805_X7R_25V_10%	C3_1, C3_2, C3_3	CAPC_0805	3	Würth Elektronik	885012207074 or equivalent
4	CAPC_100n_0603_X7R_25V_10%	C4_1, C4_2, C4_3, C29, C30, C31, C32, C34, C35, C36, C38, C42, C45	CAPC_0603	13	Würth Elektronik	885012206071 or equivalent
5	CAPC_330p_0603_NP0_50V_5%	C5_1, C5_2, C5_3	CAPC_0603	3	Würth Elektronik	885012006060 or equivalent
6	CAPC_10n_0603_X7R_50V_10%	C6_1, C6_2, C6_3	CAPC_0603	3	Würth Elektronik	885012206089 or equivalent
7	CAPC_22p_0603_NP0_50V_5%	C7_1, C7_2, C7_3, C8_1, C8_2, C8_3	CAPC_0603	6	Würth Elektronik	885012006053 or equivalent
8	CAPC_100p_0603_X7R_50V_5%	C10_1, C10_2, C10_3	CAPC_0603	3	Würth Elektronik	885012206077 or equivalent
9	4.7nF/250V/Y2	C11, C12, C16, C17	CAPC_2220	4	Würth Elektronik	8853522140011 or equivalent
10	330nF, 310V	C13	WCAP-FTXH_L26.5W8.5H17	1	Würth Elektronik	890414026001CS or equivalent
11	180µF, 400V	C14, C15	CAPE_D18_H45_E7.5	2	Würth Elektronik	860021381024 or equivalent
12	CAPC_150p_0603_X7R_50V_10%	C28, C33, C37	CAPC_0603	3	Würth Elektronik	885012206078 or equivalent
13	CAPC_1nF_0603_X7R_50V_10%	C39, C40, C41	CAPC_0603	3	Würth Elektronik	885012206083 or equivalent
14	CAPC_4u7_0805_X5R_25V_10%	C44	CAPC_0805	1	Würth Elektronik	885012107018 or equivalent
15	CAPC_330p_0603_X7R_50V_10%	C49_1, C49_2, C49_3, C50_1, C50_2, C50_3	CAPC_0603	6	Würth Elektronik	885012206080 or equivalent
16	GBU805	D1	GBU805_BRIDGE_RECTIFIER	1		
17	BAT46	D6, D7, D8, D9	Diode_SOD-323	4	STMicroelectronics	BAT46JFILM
18	Fuse, SMD, 5A, 250VAC	F1	UMT_FUSE_250	1		
19	100R@100MHz, 0,5A	FB1	RES_0603	1	Würth Elektronik	742792620 or equivalent
20	WR-TBL Series 5027	J9, J26	CON_XY301V-A_P3	2	Würth Elektronik	691502710003 or equivalent
21	WR-TBL Series 5027	J10	CON_XY301V-A_P2	1	Würth Elektronik	691502710002 or equivalent
22	MMCX	J7_1, J7_2, J7_3, J8_1, J8_2, J8_3	MMCX_SMD	6	Würth Elektronik	66012102111404 or equivalent
23	Samtec 14 pin, SMT	J13	SAMTEC_FTSH-107-01-L-DV-K-P	1		
24	Samtec 10 pin, SMT	J12, J14	SAMTEC_FTSH-105-01-L-DV-K-P	2		
25	15mH	L1	Common mode choke 7448040515	1	Würth Elektronik	7448040515 or equivalent
26	B57237S0229M000	NTC1	NTC_TDK_15mm	1		
27	75R	R1_1, R1_2, R1_3, R8_1, R8_2, R8_3	RES_0603	6		
28	10k	R2_1, R2_2, R2_3, R3_1, R3_2, R3_3, R19, R34, R35, R36	RES_0603	10		
29	1k	R5_1, R5_2, R5_3, R6_1, R6_2, R6_3, R10_1, R10_2, R10_3	RES_0603	9		
30	33m	R7_1, R7_2, R7_3	RES_2512 - meas	3		
31	27k	R9_1, R9_2, R9_3	RES_0603	3		
32	12k	R20, R27, R33	RES_0603	3		
33	24k	R4_1, R4_2, R4_3, R21, R24, R29, R32, R38, R43	RES_0603	9		
34	820R	R22, R23, R30, R31, R41, R42	RES_0603	6		
35	560R	R25, R26, R28	RES_0603	3		
36	8k2	R37, R39, R40	RES_0603	3		
37	910k	R44	RES_1206	1	Würth Elektronik	560112132052 or equivalent
38	7k5	R45	RES_0603	1		
39	2R2	R52_1, R52_2, R52_3, R53_1, R53_2, R53_3	RES_0603	6		
40	510R	R54, R55, R56	RES_0603	3		
41	GANSPIN612	U1_1, U1_2, U1_3	GANSPIN	3	STMicroelectronics	GANSPIN612
42	STM32G431RB	U5	LQFP64_10X10mm	1	STMicroelectronics	STM32G431RBT3
43	TSV911ILT	U6, U7, U8	SOT-23-5	3	STMicroelectronics	TSV911ILT

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All capacitors are X7R or COG dielectric unless otherwise indicated

#	Comment	Designator	Footprint	Quantity	Manufacturer	Order code
1	CAPC_180p_1206_X7R_500V_10%	C1	CAPC_1206	1		
2	CAPC_330n_0603_X7R_25V_10%	C10	CAPC_0603	1	Würth Elektronik	885012206074 or equivalent
3	220n 630V	C11	FP-GRM55D-0_4-IPC_C	1	Würth Elektronik	885342214142 or equivalent
4	CAPC_100n_0805_X7R_16V_10%	C2, C5	CAPC_0805	2	Würth Elektronik	885012207045 or equivalent
5	330uF, 10V	C4	CAPE_D8_H11.5_E3.5	1	Würth Elektronik	860240274006 or equivalent
6	CAPC_10u_1206_X7R_25V_10%	C3, C6	CAPC_1206	1	Würth Elektronik	885012208069 or equivalent
7	10u/35V	C7	CAPE_D5_H11_E2	1	Würth Elektronik	860160572001 or equivalent
8	33u/35V	C8	CAPE_D5_H11_E2	1	Würth Elektronik	860160572005 or equivalent
9	CAPC_1n2_0603_X7R_25V_10%	C9	CAPC_0603	1		
10	STPS2150	D1, D3	Diode_DO-214AC_SMA	2	STMicroelectronics	STPS2150A
11	STTH1L06	D2	Diode_DO-214AC_SMA	1	STMicroelectronics	STTH1L06A
12	BAT46	D4	Diode_SOD-323	1	STMicroelectronics	BAT46JFILM
13	1M65, 1%	R1	RES_1206	1		
14	47k, 1%	R2	RES_0603	1		
15	10R, 1%	R3	RES_0603	1		
16	5k1, 1%	R4, R6	RES_0603	2		
17	30k, 1%	R5	RES_0603	1		
18	10k, 1%	R7, R8	RES_0603	2		
19	WE_7508110151	T1	Transformer_WE_7508110151	1	Würth Elektronik	7508110151 or equivalent
20	LM1117	U1	SOT-223_LM1117	1	STMicroelectronics	LD1117AS33TR
21	ST715MR	U2	SOT23-5L_L	1	STMicroelectronics	ST715MR
22	VIPER06	U3	VIPer06LS	1	STMicroelectronics	VIPER06LS