

Bill of Material

Sales code: STEVAL-IHM036V1	Project code:
Company: STMicroelectronics	Project name: Small power motor control board featuring SLLIMM STGIPN3H60 and MCU STM32F100C6T6

Index	Quantity	Reference	Value / Generic Part Number	Package / Class	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Supplier	Supplier's ordering code
1	2	C1,C6	4.7nF/Y2	Y2 safety CAP; RM=10mm	Epcos	B32021A3472M	Farnell	1609517
2	2	C2,C4	330nF/X2	X2 cap; RM=15mm; 18x8x14mm	Epcos	B32922C3334M	Farnell	1112844
3	1	C3	220nF/X2	X2 cap; RM=15mm; 18x7x12.5mm	Epcos	B32922C3224M	Farnell	1112842
4	1	C5	100uF/400V	Elyt RM=10mm; 25x30mm	Epcos	B43505A9107M000	Farnell	1839297
5	2	C7,C31	10nF	capacitor, SMD 0805	any (AVX,...)		any	
6	10	C8,C9,C11,C12,C13,C19,C26,C37,C40,C42	100nF	capacitor, SMD 0805	any (AVX,...)		any	
7	1	C10, C14	22uF/6.3V	elyt. capacitor, SMD 4*4	Panasonic	EEE0JA220SR	Farnell	9696881
8								
9	1	C15	47nF	capacitor, SMD 0805	any (AVX,...)		any	
10	1	C16	150nF	capacitor, SMD 0805	any (AVX,...)		Farnell	
11	1	C17	1uF/400V	Elyt RM=3.5mm; 8x11.5mm	Nichicon	UVZ2G010MPD1TD	Farnell	1822748
12	1	C18	1uF/50V	capacitor, SMD 1206/50V	any (AVX,...)		any	
13	1	C20	100uF/25V	elyt. capacitor, SMD 8*8	Panasonic	EEEF1E101AP	Farnell	1244362
14	6	C21,C22,C23,C25,C28,C29	1uF/50V	capacitor, SMD 1206/50V	any (AVX,...)		any	
15	1	C24	4.7uF/25V	elyt. capacitor, SMD 4*4	Panasonic	EEE1EA4R7SR	Farnell	9696954
16	1	C27	330pF	capacitor, SMD 0805	any (AVX,...)		any	
17	1	C30	2.2nF	capacitor, SMD 0805	any (AVX,...)		any	
18	1	C32	100pF	capacitor, SMD 0805	any (AVX,...)		any	
19	1	C33	33pF	capacitor, SMD 0805	any (AVX,...)		any	
20	1	C34	22nF	capacitor, SMD 0805	any (AVX,...)		any	
21	1	C35	68nF	capacitor, SMD 0805	any (AVX,...)		any	
22	2	C36,C38	30pF	capacitor, SMD 0805	any (AVX,...)		any	
23	1	C39	6.8uF/10V	elyt. capacitor, SMD 4*4	United Chemi	BMVK100ADA6R8MD60G	Farnell	1698330
24	8	SW2,SW3,R38,R39,R40,R41,C41,R42, R14	Not assebled	Not assebled				
25	4	D1, D2, D4, D5	1N4007SMD	Diode 1000V, SMD DO-214	any		GM	917-016
26	2	D6,D7	STTH1L06A	Fast rectifier, SMD SMA	STMicroelectronics	STTH1L06A	ERA	STTH1L06A
27	2	D3,D10	BAT48JFILM	Schottky diode, SMD SOD-323	STMicroelectronics	BAT48JFILM	ERA	BAT48JFILM
28	1	D8	BZV55C18SMD	Zener diode, SMD MELF0204	any		GM	919-007
29	1	D9	LED GREEN	LED 3mm, 2mA, Green	Agilent	L-934LGD	GM	511-381
30	2	D11,D12	LED YELLOW	LED 3mm, 2mA, Yellow	Agilent	L-934LYD	GM	511-466
31	1	F1 (A)	2A	Radial fuse 2A, T2A/250V RM=5.08	Schurter	MST2-02	GM	633-193
32	1	F1 (B)	Fuse socket	Radial fuse socket RM=5.08,	Schurter	KS-SH166	GM	829-023
33	2	J1 (A), J2 (A)	Connector header	Connector serie 3137, RM=5mm, header, close horizontal	Würth elektronik	691 313 710 003	Würth elektronik	691 313 710 003
34	2	J1 (B), J2 (B)	Connector vertical	Connector serie 3527, RM=5mm, vertical	Würth elektronik	691 352 710 003	Würth elektronik	691 352 710 003

35	1	J3	Connector J3	MLW20G connector	Tyco	MLW20G	GM	800-036
36	1	J4	RS-485/N.A.	Not assebled				
37	1	J5	+15V AUX	Modular connector 5.0mm, 2pins	any	ARK128V-A-2P	GM	821-097
38	1	L1	470uH	Choke 8.0x5.5 mm	Wurth elektronik	744 741 471	Wurth elektronik	744 741 471
39	1	L2	2.2mH	Choke 8.0x9.5 mm	Wurth elektronik	768 772 152	Wurth elektronik	768 772 152
40	1	L3	100uH	Choke SMD 1008	Panasonic	ELJFC101JF	Farnell	1198429
41	1	NTC1	10R	NTC resistor 8.5mm	Epcos	B57153S100M	Farnell	1688795
42	1	RT1	10k	NTC resistor SMD 0805	Epcos	B57471V2103J062	Farnell	1688784
43	2	R1,R2	470k	resistor, SMD 1206, 1%	any		any	
44	1	R3	8k2	resistor, SMD 0805, 1%	any		any	
45	1	R4	51k	resistor, SMD 0805, 1%	any		any	
46	1	R5	120R	resistor, SMD 0805, 1%	any		any	
47	1	R6	13k	resistor, SMD 0805, 1%	any		any	
48	1	R7	68k	resistor, SMD 0805, 1%	any		any	
49	1	R8	7k5	resistor, SMD 0805, 1%	any		any	
50	1	R24	50k	Resistive trimr 2.5x5mm	any	CA9MHK050	GM	112-409
51	1	R24 (B)	Shaft	Plastic shaft for trimmer	any	PT10Z5012B	GM	624-094
52	9	R9,R26,R28,R29,R31,R32,R33,R34,R35	10k	resistor, SMD 0805, 1%	any		any	
53	4	R10,R11,R12,R13	1R6	resistor, SMD 1206, 1%	any		any	
55	3	R15,R16,R23	1k0	resistor, SMD 0805, 1%	any		any	
56	1	R17	18k	resistor, SMD 0805, 1%	any		any	
57	2	R18,R25	4k7	resistor, SMD 0805, 1%	any		any	
58	2	R19,R20	6k2	resistor, SMD 0805, 1%	any		any	
59	2	R21,R22	1k	resistor, SMD 0805, 1%	any		any	
60	1	R27	100R	resistor, SMD 0805, 1%	any		any	
61	1	R30	1M	resistor, SMD 0805, 1%	any		any	
62	2	R36,R37	1k6	resistor, SMD 0805, 1%	any		any	
63	1	SW1	USER Button	Yellow button, circle shape	Highly electric	P-DT6GE	GM	630-041
64	1	SW4	Shorted	Both pins soldered together				
65	6	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8	Test points	Test pin 1MM	any	Test pin 1MM	RS	262-2179
66	1	T1	CM_choke 12mH	CM choke 23.5x 16 mm	Wurth elektronik	744 622 1012	Wurth elektronik	744 622 1012
67	1	U1	VIPer16LD	IO, SMD, DIP16	STMicroelectronics	VIPer16LD	ERA	VIPer16LD
68	1	U2	L78L33ACU	IO SMD, SOD-89	STMicroelectronics	L78L33ACU	ERA	L78L33ACU
69	1	U3	STGIPN3H60	IO SDIP-26	STMicroelectronics	STGIPN3H60	ERA	STGIPN3H60
70	1	U4	STM32F100C6T6	IO SMD, LQFP48	STMicroelectronics	STM32F100C6T6	ERA	STM32F100C6T6
71	1	U5	Not assebled	Not assebled				
72	1	VR1	592-275; p-600mW	Varistor RM=7.62	any	VE13M00251K	GM	115-020
73	1	Y1	8MHz	Crystal 8MHz, mini HC49US	any	QM 8.000MHZ	GM	131-073
74	1	plastic isolation under X-tall Y1; dielectric		Isolation for HC49US	any	IB-HC49	GM	621-023
75	4		Distance	Distance M3, 20mm long, Plastic		KDI6M3X20	GM	623-048
76	4		Spur 3mm	3mm spur (under screw)			any	
77	4		Screw 3mm	Screw 3mm, 6mm long			any	