

PROJECT NAME: STEVAL-ICB010V1

BILL OF MATERIALS

Item	Q.ty	Ref.	Part Value	Toll.	Voltage Current	WATT	Tecnology Information	Package	Manufacturer	Manufacturer Code	RS Distrelec Other Code	More Info
1	15	C1, C2, C3, C4, C5, C6, C8, C12, C13, C15, C17, C19, C21, C29, C31	100 nF		> 5.5 Vcc		X7R	0603	AVX	0603YC104KAT2A	RS: 698-3320	Capacitor MLCC 0603 100nF 16V
2	2	C10, C11	22 pF					0603	ANY			
3	1	C18	4.7 nF					0603	ANY			
4	2	C26, C27	10 nF		> 5.5 Vcc		X7R	0603	AVX	06035C103KAT2A	RS: 698-3254	Capacitor MLCC 0603 10nF 50V
5	12	C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44	1 nF					0603	ANY			
6	12	C7, C9, C14, C16, C20, C22, C23, C24, C25, C28, C30, C32	1 uF		> 5.5 Vcc		X5R	0603	AVX	06036D105KAT2A	RS: 698-3314	Capacitor MLCC 0603 1uF 6.3V
7	4	D2, D5, D8, D11	Direction LED					1206	Lite-On	LTST-C230KGKT	RS: 692-1105	LED,1206,Reverse Mount,Green,35mcd (Direction Detection)
8	1	D13	Power LED					0805	OSRAM	LYR976NR1020R18	RS: 497-4804	LED, 0805, RED, package 2.0 mm x 1.25 mm x 0.8 mm
9	4	D1,D4,D7,D10	Touch LED					1206	Lite-On	LTST-C230KRKT	RS: 692-1108	LED,1206,Reverse Mount,Red,60mcd (Touch Detection)
10	4	D3, D6, D9, D12	Proximity LED					1206	Lite-On	LTST-C230KSKT	RS: 692-1102	LED,1206,Reverse Mount,Yellow,50mcd (Proximity Detection)
11	1	J1	SWD Connector						Samtec	FTS-105-01-F-DV		10w DUAL BODY, SMT MICRO TERMINAL STRIP
12	1	J2	Surface Mount USB mini-B Connector		30Vdc / 1A				molex	54819-0572	RS: 515-1995	
13	12	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12	2STR1215		15 V - 1.5 A			SOT-23	ST	2STR1215		Low voltage fast-switching NPN power transistor
14	12	R1, R2, R3, R10, R11, R14, R20, R21, R22, R28, R29, R30	300 Ω			0.125		0805	ANY			
15	2	R12, R7	10 kΩ			0.125		0805	ANY			
16	1	R13	220 Ω			0.125		0805	ANY			
17	1	R27	1 MΩ			0.125		0805	ANY			
18	1	R36	620 Ω			0.125		0805	ANY			
19	4	R4, R15, R24, R35	10 kΩ - not mounted if STM8T142					1206	ANY			ASSEMBLY WITH STM8T143
20	12	R5, R6, R9, R16, R17, R18, R23, R25, R26, R32, R33, R34	1 kΩ			0.125		0805	ANY			
21	4	R8, R19, R31, R37	2 kΩ	1%		0.125		0805	ANY			
22	1	R38	47 kΩ					0805	ANY			

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23	1	R39	1.5 kΩ					0805	ANY			
24	4	U1,U3,U5,U8	STM8T143					SO8	ST	STM8T143AM61T		Single-channel capacitive sensor for touch and proximity detection
25	1	U2	STM32F103C6					LQFP48	ST	STM32F103C6T6A		Low-density performance line, ARM-based 32-bit MCU with 16 or 32 KB Flash, USB, CAN, 6 timers, 2 ADCs, 6 communication interfaces
26	1	U4	USBUF02W6					SOT323-6L	ST	USBUF02W6		EMI filter and line termination for USB upstream ports
27	1	U6	LD3985M27R					SOT23-5L	ST	LD3985M27R		Ultra low drop-low noise BiCMOS voltage regulators low ESR capacitors compatible
28	1	U7	LD3985M33R					SOT23-5L	ST	LD3985M33R		Ultra low drop-low noise BiCMOS voltage regulators low ESR capacitors compatible
29	1	X1	XTAL - 8 MHz					HC-49/US	Abracon	ABLS-8.000MHz-B2	RS: 703-1783	Quartz SMD
30	1		USB standard A - mini-B cable		1A				molex	88732-8600	RS: 656-3939	

if it is not specified, for TRH and SMD resistors their tolerance is at 5%