

PROJECT NAME:STEVAL-IHP005V1

November 13, 2012

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECHNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/OTHER Code	More Info
1	1	BATT1	3V		3V		LITHIUM Battery BR2032 190mAh	Trough hole	PANASONIC	BR-2032/GUN	Farnell:1298255	
2	1	C2	68nF X1	10%	330 Vac		Polypropylene film capacitor (MKP)	Trough hole lead spacing 15mm	Epcos	B32912A3683M189	RS:669-0081	
3	1	C3	N.M.									
4	1	C4	6.8nF	10%	50V		X7R ceramic capacitor	SMD 0603	any			
5	5	C1,C5,C9,C16,C19	10uF	10%	35V		X6S ceramic Capacitor	SMD 1206	MURATA	GRM31CC8YA106KA12L	Digi-key:490-5520-2-ND Farnell:1889298	
6	2	C6,C7	33pF	5%	50Vdc		COG ceramic capacitor	SMD 0603	any			
7	13	C8,C12,C13,C14,C15,C18,C25,C27,C30,C31,C32,C33,C34	100nF	10%	50V		X7R ceramic capacitor	SMD 0603	any			C30,C31,C32,C33,C34 not mounted
8	1	C10	10nF	10%	50V		X7R ceramic capacitor	SMD 0603	any			
9	1	C11	4.7uF 16V	10%	16V		X7R ceramic capacitor	SMD 0805	any			
10	1	C17	15pF	5%	50Vdc		COG ceramic capacitor	SMD 0603	any			
11	2	C20,C29	100pF	5%	50Vdc		COG ceramic capacitor	SMD 0603	any			
12	2	C21,C22	10pF	5%	50Vdc		COG ceramic capacitor	SMD 0603	any			
13	3	C23,C24,C26	22pF	5%	50Vdc		COG ceramic capacitor	SMD 0603	any			
14	1	C28	270pF	5%	50Vdc		COG ceramic capacitor	SMD 0603	any			
15	1	D1	SM6T15CA		15VDC		Transil Diode	SMD SMB	ST	SM6T15CA		
16	2	D2,D4	BAT54S		40V/300mA		Small signal Schottky diodes	SMD SOT23	ST	BAT54SFILM		
17	1	D3	BI-LED				LED, SMD, BICOLOUR, RED/GRN	SMD 3.2x2.7mm	AVAGO TECHNOLOGIES	HSMF-C155	Farnell:5790888	
18	1	J1	CON3				3 way right angle stripline connector 4.8mm contacts lenght	Trough hole 2.54mm pitch	WINSLOW ADAPTIC	W81936T3834RC	RS:251-8430	mounted on bottom side - r
19	2	J2	NM									not mounted
20	1	J3	PROG				low profile female strip line connector	Trough hole	Stelvio Kontek	4772845125440	RS code:230-4938	

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21	1	J4	CON24A					24 way (2x12) right angle stripline connector 4.8mm contacts length	Trough hole 2.54mm pitch	WINSLOW ADAPTIC	W82972T3834RC	RS code:251-8468	mounted on bottom side
22	1	L1	22uH	10%	2.1A			Power Inductor	SMD	EPCOS	B82464A4223K	Mouser: 871-B82464A4223K	
23	1	L2	220uH	10%	0.24A			Power Inductor	SMD	EPCOS	B82462A4224K	871-B82462A4224K	
24	2	Q1,Q2	BC857					PNP small signal transistor	SMD SOT23	any		RS:508-236	
25	1	R1	0R-NM					not mounted	SMD 1206				not mounted
26	1	R2	750R	1%			1/10W	metal film resistor	SMD 0603	any			
27	2	R3,R4	82R	1%			1/10W	metal film resistor	SMD 0603	any			
28	7	R5,R22,R23,R24,R25,R26,R27	10k	1%			1/10W	metal film resistor	SMD 0603	any			
29	3	R6,R7,R19	1K	1%			1/10W	metal film resistor	SMD 0603	any			
30	1	R8	2.7K	1%			1/10W	metal film resistor	SMD 0603	any			
31	1	R9	68K	1%			1/10W	metal film resistor	SMD 0603	any			
32	1	R10	15K	1%			1/10W	metal film resistor	SMD 0603	any			
33	1	R11	1K1	1%			1/10W	metal film resistor	SMD 0603	any			
34	1	R12	390R	1%			1/10W	metal film resistor	SMD 0603	any			
35	1	R13	2K7	1%			1/10W	metal film resistor	SMD 0603	any			
36	1	R14	13K	1%			1/10W	metal film resistor	SMD 0603	any			
37	1	R15	82K	1%			1/10W	metal film resistor	SMD 0603	any			
38	1	R16	4K7	1%			1/10W	metal film resistor	SMD 0603	any			
39	5	R17,R30,R31,R32,R33	0R	1%			1/10W	metal film resistor	SMD 0603	any			
40	3	R21,R28,R29	N.M.					not mounted	SMD 0603				not mounted
41	1	R18	1K8	1%			1/10W	metal film resistor	SMD 0603	any			
42	1	R20	2K49	1%			1/10W	metal film resistor	SMD 0603	any			
43	1	T1	TRAFO 1:1					Transformer 1:1	Trough hole SMD	WURTH ELEKTR. VAC	750510231 T60403-K5024-X044		

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44	1	U1	ST7540					FSK power line transceiver	SMD HTSSOP28	ST	ST7540		
45	1	U2	STM32F103CBT7TR					32-bit MCU	SMD LQFP48	ST	STM32F103CBT7TR		
46	1	U3	ST3232CTR					3 to 5.5 V, low power, up to 400 kbps RS-232 drivers and receivers	SMD TSSOP16	ST	ST3232CTR		not mounted
47	1	U4	USBUF02W6					EMI filter and line termination for USB upstream ports	SMD SOTT323-6	ST	USBUF02W6		
48	1	Y1	16MHz	3 ppm/Year					HC-49 SMD	Euroquartz	16.000MHz 49USMX/30/50/- 40+85/18pF/ATF	RS code:693-8885	
49	1	Y2	32.768KHz	5 ppm/Year					SMD	Citizen	CM200C-32.768KDZF-UT	Mouser: 695-CM200C-327KF-U	
										QD	LFXTAL003000	RS code: 478-9274P	
50	1	Y3	8MHz	3 ppm/Year					HC-49 SMD	Euroquartz	8.000MHz 49USMX/30/50/- 40+85/18pF/ATF	RS code : 693-8869	