

		PROJECT NAME:	STEVAL-4HM035V1		Ver 1.0			October 21, 2011				
BILL OF MATERIALS												
Item	Quantity	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/Other Code	More Info
1	3	C1,C2,C3	10pF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
2	3	C5,C9,C12	N.M.									
3	1	C6	100nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
4	1	C10	100nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
5	1	C14	470nF	5%	25V		SMD MULT.CERAMIC CAP.	0603	ANY			
6	1	C17	2.2nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
7	1	C18	22nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
8	1	C19	33pF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
9	1	C20	10nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
10	1	C22	4.7nF	5%	10V		SMD MULT.CERAMIC CAP.	0603	ANY			
11	1	C7	4.7uF	20%	25V		ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	PANASONIC	EEE1EA4R75R	RS:262-2179	
12	3	C13,C15,C16	2.2uF	5%	25V		SMD MULT.CERAMIC CAP.	0805	ANY		RS:536-9916	PAGE CATALOGUE 1-1038
13	1	C21	100uF	20%	450V		ALUMINIUM ELECTROLYTIC CAPACITOR				RS:706-3297	PAGE CATALOGUE 1-1014
14	1	C42	10uF	20%	6.3V		CERAMIC SMT CAPACITOR	1206	MURATA	GRM31CR60J106KA01L	RS: 653-0541	
15	1	C23	100uF	20%	25V		ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	PANASONIC	ECEV1EA101P	RS-628-4024	PAGE CATALOGUE 1-1038
16	1	C41	10uF	20%	10V		CERAMIC SMT CAPACITOR	1206	MURATA	GRM31CR61A106KA01L	RS: 723-6524	
17	1	C28	22uF	20%	25V		ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	PANASONIC	EEE1EA20SP	RS:536-9893	PAGE CATALOGUE 1-1038
18	3	C4,C8,C11	N.M.									
19	1	C36	1uF	5%	25V		SMD MULT.CERAMIC CAP.	0805	ANY			
20	1	C37	22nF	5%	6.3V		SMD MULT.CERAMIC CAP.	0603	ANY			
21	1	C38	220nF	5%	25V		SMD MULT.CERAMIC CAP.	0805	ANY			
22	4	R2,R3,R4,R6	N.M.									
23	10	R1,R5,R7,R9,R10,R14,R21,R30,R37,R50	0	1%				0603	ANY			
24	8	R8,R11,R12,R18,R25,R33,R36,R51	4.7K	1%				0603	ANY			
25	3	R13,R20,R29	1M	1%				0603	ANY			
26	6	R15,R16,R22,R23,R31,R32	180K	1%				1206	ANY			
27	6	R17,R24,R34,R39,R42,R47	1K	1%				0603	ANY			
28	3	R19,R26,R35	10K	1%				0603	ANY			
29	1	R27	33K	1%				0603	ANY			
30	1	R28	10M	1%				0603	ANY			
31	2	R38,R41	910	1%				0603	ANY			
32	1	R40	22	1%				0603	ANY			
33	1	R43	0.47	1%		2W		2512	IRC	LR2512-LF-R470-F	MOUSER:66-LR2512-LF-R470-F	
34	2	R48,R49	2.7K	1%				0603	ANY			
35	2	RS2,RS3	470K	1%				1206	ANY			
36	1	RS4	8.2K	1%				0603	ANY			
37	1	R88	1.5K	1%		1/4W		1206	ANY			
38	1	R64	8.8K	1%				0603	ANY			
39	1	R65	1.5K	1%				0603	ANY			
40	1	R66	15K	1%				0603	ANY			
41	1	R67	56K	1%				0603	ANY			
42	22	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22					Loop terminal assembly, black 1.02mm dia		Vero Technologies	20-2137	RS:101-2391	
43	3	D1,D3,D5	LL4005		600V/1A		Rectifier Diode	SMD D0213AB	Taiwan Semiconductor	LL 4005G	Distelec code: 604754	
44	3	D2,D4,D6	BATS4JFILM				Small signal Schottky diodes	SOD-323	STMicroelectronics	BATS4JFILM		
45	4	D7,D8,D9,D10	STTH1R04U				FAST RECOVERY RECTIFIER DIODES	SMD SMB	STMicroelectronics	STTH1R04U		
46	3	D13,D11,D15	STTH1L06A		600V/1A		TURBO 2 ULTRAFAST HIGH VOLTAGE RECTIFIER	SMA	STMicroelectronics	STTH1L06A		
47	1	D22	1N4148WT				High Conductance Fast Switching Diode	SOD 523F	Fairchild	1N4148WT		
48	1	D16	GREEN LED				CHIPLED SMT	0603	AVAG	H5MG-C170	RS:435-6767	
49	1	F1	FUSE		2A		RADIAL LEAD MICROFUSE	0805	HOLLY	5RF020HK	RS:611-0684	PAGE CATALOGUE 1-1235
50	1	J1	MOTOR CONNECTOR				MULTIPOLES CONNECTOR		Tyco Electronics	3-1761603-1	RS:461-792	PAGE CATALOGUE 1-557
51	4	J2, J3, J4, J5	STRIPLINE1X3				STRIP LINE-MALE 90°		KONTEK	4720302140400	RS:423-2857	Placed on bottom side
52	1	J10	STRIPLINE1X3				STRIP LINE-MALE		MOLEX	90120-0763	RS:360-6520	PAGE CATALOGUE 1-613
53	5	Jumper	Jumper female				Jumper female		RS		RS:251-8682	Default position shown in silkscreen
54	1	J6	MOTOR	250V	12A		3 WAYS CONNECTOR MALE 90° 5.08mm		PHOENIX	MSTBA 2.5/ 3-G-5.08	RS:189-6111	Placed on bottom side
55	1	MOTOR	MOTOR				3 WAYS CONNECTOR FEMALE 90° 5.08mm		PHOENIX	MSTB 2.5/ 3-ST-5.08	RS:1896026	
56	1	J7	AC MAIN	250V	12A		2 WAYS CONNECTOR MALE 90° 5.08mm		PHOENIX	MSTBA 2.5/ 2-G-5.08	RS:189-6105	Placed on bottom side
57	1	J8	DC BUS	250V	12A		2 WAYS CONNECTOR MALE 90° 5.08mm		PHOENIX	MSTBA 2.5/ 2-G-5.08	RS:189-6105	Placed on bottom side
58	2	AC MAIN/DC BUS	AC MAIN/DC BUS				2 WAYS CONNECTOR FEMALE 90° 5.08mm		PHOENIX	MSTBA 2.5/ 2-G-5.08	189-6105	
59	1	NTC1	NTC				NTC THERMISTOR	1206	EPCOS	B57821C103L62	RS:191-2342	
60	1	NTC2	NTC		4.2A	300mW	NTC THERMISTOR		EPCOS	B5723SS509M	RS:467-614	PAGE CATALOGUE 1-1166
61	3	Q1,Q2,Q3	BC 817-25				NPN Transistor	SMD SOT23	ANY		RS code: 436-7903	
62	1	TR1	SMAJ18A-TR				Transist diode	SMA	STMicroelectronics	SMAJ18A-TR		
63	1	T1	Multiple Inductor 1.41mH 0.17A				Multiple Inductor 1.41mH 0.17A		MAGNETICA	2092.0003		
64	1	U1	Rail-to-rail 1.8V high-speed comparator				Rail-to-rail 1.8V high-speed comparator	SOT23-5	STMicroelectronics	TS3021LT		
65	1	U2	STGIPN3H60				Small low-loss intelligent molded module	NDIP-26L	STMicroelectronics	STGIPN3H60		
66	1	U3	LD1117S33TR				Low drop fixed and adjustable positive voltage regulators	SMD SOT-223	STMicroelectronics	LD1117S33TR		
67	1	U9	LD1117S50TR				Low drop fixed and adjustable positive voltage regulators	SMD SOT-223	STMicroelectronics	LD1117S50TR		
68	1	U8	VIPER16LD				Low Power OFF-Line SMPS Primary Switcher	SO16N	STMicroelectronics	VIPER16LD		
69	1						3 WAYS CONNECTOR MALE 5.08mm		PHOENIX	MSTB 2.5/ 3-ST-5.08	RS: 189-6026	Plugged into item 51 (J6)
70	1						2 WAYS CONNECTOR MALE 5.08mm		PHOENIX	MSTB 2.5/ 2-ST-5.08	RS: 189-6010	Plugged into item 52 (J7)
71	1						2 WAYS CONNECTOR MALE 5.08mm		PHOENIX	MSTB 2.5/ 2-ST-5.08	RS: 189-6010	Plugged into item 53 (J8)
72	1	Heatsink	N.M.									
73	6	Screw M3-20 mm									RS:528-772	

		PROJECT NAME:		STEVAL-IHM035V1		Ver 1.0				October 21, 2011		
<b>BILL OF MATERIALS</b>												
Item	Quantity	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/Other Code	More Info
74	6	Washer M3									RS:560-338	
75	2	Screw nut M3									RS:189-563	
76	4	Nylon spacer M3 20mm									RS:325-700	
77	1	Plastic bag									RS:287-7852	