

			PROJECT NAME: STEVAL-ISA080V1		December 21, 2010
BILL OF MATERIALS					

Item	Quantity	Reference	Part / Value	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/Other Code	More Info
1	1	C1	68uF 450V	Electrolytic Aluminium Capacitor	TH Radial	Epcos	B43890A5686M000		
2	1	C3	470nF 630Vdc	Metalized Polypropylene Film Capacitor	TH Radial	Epcos	B32653A6474K000		
3	1	C4	470 pF, 25V	ceramic capacitor COG, 5%	SMD 0805	any			
4	1	C5	47 nF, 25V	ceramic capacitor	SMD 0805	any			
5	1	C6	1 mF, 25V	Ceramic Capacitor	SMD 0805	any			
6	1	C7	10 nF, 25V	Ceramic Capacitor	SMD 0805	any			
7	2	C8,C9	305V X2, 470 nF,10%	Polypropylene	TH Radial	Epcos	B32922C3474K000		
8	1	C10	1nF 250V Y1	Ceramic Capacitor	TH Radial	RS		RS-Code 214-5896	
9	1	C11	100nF 50V	Ceramic capacitor	SMD 1206	any			
10	1	C12	470 uF, 35V	Electrolytic Aluminium Capacitor	TH Radial	RS		RS-Code 519-4188	
11	1	C13	470 uF, 35 V	Electrolytic Aluminium Capacitor	TH Radial	RS		RS-Code 519-4188	
12	1	C14	22 nF 630V	Polypropylene	TH Radial	RS		RS-Code 544-1355	
13	1	C15	2.2n-Y1- 250V	Ceramic Capacitor	TH Radial	RS		RS-Code 214-5903	
14	1	C16	1uF, 25V	Ceramic capacitor	SMD 0805	any			
15	1	C19	150 nF, 25V	ceramic capacitor	SMD 0805	any			
16	1	C20	100 uF 35V	Electrolytic Aluminium Capacitor	TH Radial	RS		RS-Code 519-4150	
17	1	C21	220 nF, 25V	ceramic capacitor	SMD 0805	any			
18	1	C22	470 uF 25V	Electrolytic Aluminium Capacitor	TH Radial	RS		RS-Code 193-6821	
19	1	D1	600 V, 3 A	Turbo 2 Ultrafast high volt rectifier	DO41	STMicroelectronics	STTH2L06		
20	1	D2+heatsink	800V, 4A	Bridge	TH	RS	GBU8K	RS-Code 670-8930	
21	2	D3,D4 +heatsink	10A, 60V	Power Schottky Rectifier	TO-220	STMicroelectronics	STPS10L60FP		
22	6	D6,D7,D8,D12, D13,D14	150mA, 100V	Schottky Rectifier	Minimelf	STMicroelectronics	TMMBAT46		
23	1	D15	12V	Zener Diode	Minimelf	RS	TZMB12-GS08	RS-Code 699-7874	
24	1	D16	15V	Zener Diode	Minimelf	RS	TZMB15-GS08	RS-Code 699-7878	

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25	1	F1	3A	Fuse	TH	RS	19370K-3.15A	RS Code 611-0333	
26	1	ISO1	PC817	Photo Coup	TH	RS	PC817X2J000F	RS-Code 666-6603	
27	1	J1	CON3	Morsetto passo 7.62 mm	TH	RS	MKDS 1.5/3-5.08	RS-Code 189-5972	
28	1	J2	CON2	Morsetto passo 5mm	TH	RS	MKDS 1.5/ 2-5.08 HT BK	RS Code 467-0350	
29	1	LC1	2x12 mH/1.8A	Common Choke	TH	TDK	HF2826-123Y1R8-T01		
30	1	LPFC1	520uH,1.4A	PFC Inductor	TH	Magnetica	1974.002		
31	3	Q1,Q2,Q3+ heatsink	STF12NM50N	MDMESH™ II Mosfet	TO220-FP	STMicroelectronics	STF12NM50N		
32	1	Q4	STQ1HNK60R	SuperMesh Mosfet	TH	STMicroelectronics	STQ1HNK60R		
33	2	Q5,Q6	BC847	Small Signal Bipolar	SMD SOT 23	RS	BC847	RS Code 436-7953	
34	1	R1	1.2 Mohm, 1%, 1/4W		SMD 1206	any			
35	1	R2	1.8 Mohm, 1%, 1/4W		SMD 1206	any			
36	3	R3,R5,R7	1 Mohm, 1%, 1/4W		SMD1206	any			
37	1	R4	330 kOhm, 1%, 1/8W		SMD 0805	any			
38	1	R6	2.2 Mohm, 1%, 1/4W		SMD1206	any			
39	1	R9	2.2 Mohm, 1%, 1/8W		SMD 0805	any			
40	1	R8	240 kOhm, 1%, 1/8W		SMD 0805	any			
41	1	R10	not mounted		SMD 0805	any			not mounted
42	1	R11	43 kOhm,1%, 1/4W		SMD 0805	any			
43	2	R12,R15	15 kOhm, 1%, 1/8W		SMD 0805	any			
44	1	R17	15 kOhm, 1%, 1/4W		SMD 1206	any			
45	1	R13	56 kOhm, 1%, 1/4W		SMD 1206	any			
46	1	R14	27 kOhm, 1%, 1/4W		SMD 1206	any			
47	3	R16,R18,R22	56 Ohm, 1%, 1/4W		SMD 1206	any			
48	1	R19	360 kOhm, 1%, 1/4W		SMD 1206	any			
49	1	R20	not mounted		TH, 1W	any			not mounted

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50	1	R21	0.180 Ohm, 1%, 1W		TH radial	any			
51	2	R23,R24	2.4 Mohm, 1%, 1/4W		SMD 1206	any			
52	1	R26	not mounted		TH, 1W	any			not mounted
53	1	R27	0.56 Ohm, 1%, 1W		TH Radial	any			
54	1	R28	10 kOhm, 5%,1/4W		SMD 1206	any			
55	1	R29	5.6 kOhm, 1%, 1/8W		SMD 0805	any			
56	1	R32	36 Ohm,1%, 1W		SMD 1206	any			
57	1	R33	39 kOhm, 1%,1/8W		SMD 0805	any			
58	1	R34	47 kOhm, 1%, 1/8W		SMD 0805	any			
59	1	R35	6.2 kOhm, 1%, 1/8W		SMD 0805	any			
60	1	R36	120 kOhm, 1%, 1/8W		SMD 0805	any			
61	4	R37,R38,R39, R44	0 Ohm, 1/4W,5%		SMD 1206	any			
60	1	R40	1 kOhm,1%, 1/8W		SMD 0805	any			
61	1	R42	4.7 kOhm, 1%, 1/8W		SMD 0805	any			
62	1	R43	6.8 kOhm, 1%, 1/8W		SMD 0805	any			
63	1	R46	150 kOhm, 1%, 1/8W		SMD 0805	any			
64	1	T1	TRAFO		TH	Magnetica	1860.0045		
65	1	U1	L6585DE		SMD SO20	STMicroelectronics	L6585DE		
66	1	U2	TL431	Programmable Voltage Reference	TH TO92	STMicroelectronics	TL431		
67	4	JUMPER1, JUMPER2, JUMPER3, JUMPER4	Isolated wire jumper		TH				
68		Heatsink						Distelec Code 341608	