

PROJECT NAME: STEVAL-ISF001V2

January 24, 2012

BILL OF MATERIALS

Item	Qty	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	More Info
1	1	C1	0.22 uF 300Vac X2						KEMET	R463N32205001K	
2	2	C2,C4	1 nF Y2						MURATA	DE2E3KH102MA3B	
3	1	C3	2.2 uF 300Vac X2						KEMET	R463R422000M1M	
4	1	C7	22 nF 630 V						VISHAY	BFC233840223	
5	2	C6,C8	330 uF 450 V						PANASONIC	EET-ED2W331DA	
6	1	C9	18 nF		100V				VISHAY	BFC237021183	
7	1	C10	1uF		50V			ps5	MURATA	RD71H105K2M1C03A	
8	1	C11	100 nF		50V				MURATA	RD71H104K0S1C03A	
9	1	C13	470 nF 50 V						MURATA	RPER71H474K2S1C03A	
10	1	C12	47 uF 50 V						RUBYCON	50YXF47MT16.3X11	
11	1	C16	680 pF		50V				MURATA	RPE5C2A681J2S1A03A	
12	1	C17	1.5 nF		50V				MURATA	RPER71H152K2P1A03B	
13	1	C18	10 nF		50V				MURATA	RPER71H103K2P1A03B	
14	1	C19	1 uF		50V			ps2,5	MURATA	RD71H105K2M1C03A	
15	1	C20	2.2 nF		50V				MURATA	RPER71H222K2P1A03B	
16	1	C21	1.5 nF		50V				MURATA	RPER71H152K2P1A03B	
17	1	D1	25 A 220 AC diode bridge						MIC	KBPC2510GW	
18	1	D2	1N5406						DIOTEC	1N5406	
19	2	D3,D17	STTH12S06FP (TO-220FP)						ST	STTH12S06FP	
20	1	D4	30 V Zener			1W			VISHAY	BZX85C30V	
21	4	D5,D7,D8,D9	1N4148						NXP	1N4148	N.M.D9
22	1	D6	20 V Zener			1W			VISHAY	BZX85C20V	
23	1	F1	Fuse 16 A T	6,3x32					ITALWEBER	038209	
24	1	P1	220AC 16 A three-way connector						SAURO	MSG03001	
25	1	P2	OUT/400 V 8 A two-way connector						SAURO	MSG03001+MSG02001	
26	1	P3	20vDC Aux supply stripline				ex J3 (2 lines)				
27	1	J1	Jumper stripline								
28	1	U2	STS01DTP06 (SMD)						ST	STS01DTP06	
29	1	U1	L6563S (SMD)						ST	L6563S	
30	1	P4	External signal stripline				ex J7 (3 lines)				
31	1	L1	2 mH 18 A						MAGNETICA	1745.0005	
32	1	Q1,Q2 *	STW88N65M5						ST	STW88N65M5	Only Q1 to be mounted
33	1	Q3	BC557						FAIRCHILD	BC557	
34	1	RV1	NTC 1 Ω 26 mm (ex. SIEMENS S464)						EPCOS	B57464S0109M000	
35	1	R1	470 kΩ 1/2 W	1.00%		0,6W			VISHAY	MBB/SMA0207	

36	1	R2	22 Ω 1 W	5.00%	1W	MOX	VISHAY	BX306 197 53229	
37	2	R3,R4	560 kΩ	1.00%	0,25W				
38	1	R5	120 kΩ	1.00%	0,25W				
39	1	R6	10 kΩ	1.00%	0,25W				
40	2	R7,R13	150 kΩ	1.00%	0,25W				
41	1	R8	47 kΩ	1.00%	0,25W				
42	3	R9,R10,R11	680 kΩ	1.00%	0,25W				
43	3	R12,R16,R17	2.2 MΩ	1.00%	0,25W				
44	1	R14	82 kΩ	1.00%	0,25W				
45	1	R15	15 kΩ	1.00%	0,25W				
46	1	R18	33 Ω	1.00%	0,25W				
47	2	R19,R21	3.3 Ω	1.00%	0,25W				N.M.R21
48	2	R20,R22	6.8 Ω	1.00%	0,25W				N.M.R22
49	1	R23	2.7 kΩ	1.00%	0,25W				
50	2	R24,R29	18.7 kΩ	1.00%	0,25W				
51	1	R25	1.5 kΩ	1.00%	0,25W				
52	1	R27	8.2 kΩ	1.00%	0,25W				
53	1	R28	560 kΩ	1.00%	0,25W				
54	2	R30,R31	0.07 Ω 5 W Lob5 non-inductive		5W		IRC	LOB5R070JLF	
55	1	R32	820 Ω	1.00%	0,25W				
56	2	R33,R34(1)	100 kΩ 1/2 W	5.00%	0,5W				
57	1	T1	1,5mH				MAGNETICA	2023.0001	
58	1	L2	1.2 mH 18 A				MAGNETICA	1951.0001	
59	1	L3	31 uH 8 A				MAGNETICA	1929.0001	
60	1	V1	Metal oxide varistor 22 mm 275 V				TDK	B72220S0271K101	
61	1	C22	680 nF 630 V		630V		TDK	B32654A6684K	
62	1	C5	0.68 uF 630 V		630V		TDK	B32654A6684K	
63	1	C14	1 uF (SMD)		25V	0805	MURATA	GRM31MR71H105KA88L	
64	1	R35	470 kΩ 1/2 W	1.00%	0,6W		VISHAY	MBB/SMA0207	
65	1	R26	470 kΩ	1.00%	0,25W				
		PF1	Fuseholder.6,3x32				SCHURTER	0031.8231	
		H2, H3	Heat sink PADA 8707/100/N 100mm				PADA	N8707100	Only H2 to be mounted
		H1	Heat sink PADA 8707/50/N 50mm				PADA	N8707050	
		PCB							