

STP 00	Product Technical Specification	<i>Code :</i>
<i>Product:</i> STEVAL-ISF001V1 3 kW FOT PFC DEMO BOARD Bill of Material		
<i>Customer:</i> STMicroelectronics		<i>Customer Code:</i>
<i>Date :</i> 11/12/08	<i>Revision:</i> 0	Page 1 of 2

Item	Quantity	Reference	Part
1	1	C1	0.22uF/300Vac X2
2	2	C2,C4	1nF Y2
3	1	C3	2.2uF/300Vac X2
4	2	C5,C22	680nF/630V
5	2	C6,C8	330uF/450V aluminum electrolytic 105°C
6	1	C7	22nF/630V
7	1	C9	18nF
8	1	C10	1uF ceramic 2.5mm pitch
9	1	C11	100nF ceramic 2.5mm pitch
10	1	C13	470nF/50V
11	1	C12	47uF/50V
12	1	C14	1uF (SMD 0805) [bottom]
13	1	C16	680pF ceramic 2.5mm pitch
14	2	C17, C21	1n5
15	1	C18	10nF ceramic 2.5mm pitch
16	1	C19	470nF ceramic 2.5mm pitch
17	1	C20	2.2nF ceramic 2.5mm pitch
18	1	D1	230Vac/25A diode bridge [bottom]
19	1	D2	1N5406 diode
20	2	D3,D17	ST STTH12S06 (TO-220) w/heat sink H1
21	1	D4	30V zener diode
22	4	D5,D7,D8,D9	1N4148 glass diode
23	1	D6	20V zener diode
24	1	F1	Fuse 250Vac/16A w/fuseholder
25	1	J1	230Vac/16A 3 ways 10mm pitch screw-driven termination block
26	1	J2	400Vdc/8A 2 ways 10mm pitch screw-driver termination block
27	1	J3	20Vdc Aux_Supply stripline connector
28	1	J7	External signal Jumper stripline connector
29	1	J5	ST STS01DTP06 (SO-8) [bottom]
30	1	J6	ST L6563 (SO-14) PFC Controller
28	1	J4	Jumper stripline selector
29	1	T1	MAGNETICA 1922.0001 1.5mH/13A PFC inductor
30	1	L1	MAGNETICA 1745.0005 2x2mH/18A common mode choke
31	1	L2	MAGNETICA 1951.0001 2x220uH/16A common mode choke
32	1	L3	MAGNETICA 1929.0001 2x30uH/8A common mode choke
33	2	Q1,Q2	ST STW55NM60N w/heatsink H2, H3
34	1	Q3	BC557 PNP transistor

STP 00	Product Technical Specification	<i>Code :</i>
<i>Product:</i> STEVAL-ISF001V1 3 kW FOT PFC DEMO BOARD Bill of Material		
<i>Customer:</i> STMicroelectronics		<i>Customer Code:</i>
<i>Date :</i> 11/12/08	<i>Revision:</i> 0	Page 2 of 2

35	1	RV1	NTC 1ohm EPCOS B57364 (S 364) or similar
36	2	R1, R35	470K ½W
37	1	R2	22R 1W
38	2	R3,R4	560K
39	1	R5	120K
40	1	R6	10K
41	3	R7,R13,R26	150K
42	1	R8	47K
43	3	R9,R10,R11	680K
44	3	R12,R16,R17	2.2M
45	1	R14	82K
46	1	R15	15K
47	1	R18	33R
48	2	R19,R21	3R3
49	2	R20,R22	6R8
50	1	R23	2K7
51	2	R24,R29	18K
52	1	R25	1K5
53	1	R27	8.2K
54	1	R28	220K
55	2	R30,R31	OR07/5W LOB5 non-inductive
56	1	R32	820R
57	2	R33,R34	100K ½W
58	1	RV2	Metal Oxide Varistor Ø22mm 275V
59	2	H2, H3	Heat sink PADA 8707/100/N 100mm
60	1	H1	Heat sink PADA 8707/100/N 50mm

Where unspecified all resistors are ¼W, THT