

PROJECT NAME: STEVAL-IPE014V1 STPMS2 Daughter board

September 19, 2014

## BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE-FOOT-PRINT	Manufacturer	Manufacturer Code	More Info
1	1	C1	470n		275 Vac		Metallized polyester X2 capacitor	TH 11.5x31.5, lead spacing 27.5	Evox Rifa	PHE820EF6470MR06L2	
2	1	C2	1n	10%	400/250 Vac		Ceramic Capacitor X1/Y2	TH 8.5 X 6mm	Vishay	S102M33Z5US6TK7R	
3	1	C3	10n	10%	25 V		X7R Ceramic Capacitor	SMD 0805			
4	1	C4	22n	10%	25 V		X7R Ceramic Capacitor	SMD 0805			
5	5	C5,C6,C9,C11,C14	1u	10%	25 V		X7R Ceramic Capacitor	SMD 0805			
6	1	C10	1u	10%	25 V		X7R Ceramic Capacitor	SMD 0805			NOT MOUNTED
7	2	C7,C8	4.7n	10%	25 V		X7R Ceramic Capacitor	SMD 0805			NOT MOUNTED
8	2	D1,D2			600 V / 1 A		DIODE RECTIFIER SMD*600V 1A	SMD SMA			
9	4	JP1,JP2,JP3,JP4	Morsetti_4x2				8 way 2row stripline connector	TH			+ n. 4 jumper
10	1	L1	220uH	10%	100 mA		Wirewound Chip Inductor 220uH/100mA	SMD 1812	Bourns	CM453232-221KL	
11	1	R1	82	5%		2 W	Wire resistor SFR_KRAH type	TH	ITALOHM www.italohm.com	SFR_KRAH	
12	2	R2,R13	150k	1%			Mini Melf resistor	SMD mini melf 0204	Vishay	MMA0204	
13	2	R3,R4	180k	1%			Mini Melf resistor	SMD mini melf 0204	Vishay	MMA0204	
14	1	R5	470	1%			Mini Melf resistor	SMD mini melf 0204	Vishay	MMA0204	
15	1	R6	2.7	1%			Mini Melf resistor	SMD mini melf 0204	Vishay	MMA0204	
16	2	R7,R8	0	1%			Mini Melf resistor	SMD mini melf 0205	Vishay	MMA0204	
17	2	R14,R17	1K	1%			Mini Melf resistor	SMD mini melf 0205	Vishay	MMA0204	
18	1	R9	43k	1%			Mini Melf resistor	SMD mini melf 0205	Vishay	MMA0204	NOT MOUNTED
19	1	R10	2.2M	1%			Mini Melf resistor	SMD mini melf 0205	Vishay	MMA0204	NOT MOUNTED
20	1	R11	100	1%			Mini Melf resistor	SMD mini melf 0205	Vishay	MMA0204	NOT MOUNTED
21	4	R15,R16,R18	0	1%			Metal film resistor	SMD 0805			
22		R19	0				Metal film resistor	SMD 0805			NOT MOUNTED
23	1	TR1	E4622_X503				VAC_e4622_x503	TH	VAC www.vacuumschmelze.de	T60404-E4622-X503	Bottom side mounted
24	1	U1	STPMS2L				Smart sensor II dual-channel second-order sigma-delta modulator with embedded PGA	SMD QFN16	STMicroelectronics	STPMS2L-PUR	
25	1	V1	420 V		320Vac/420Vdc		Varistor S10K320	TH	Epcos	B72210S0321K101	
26	1	W1	F				TEST_POINT -single strip line connector	TH			
27	1	W2	N				TEST_POINT -single strip line connector	TH			
28	1	W3	DAT				TEST_POINT -single strip line connector	TH			
29	1	W4	VREG				TEST_POINT -single strip line connector	TH			
30	2	W5,W8	VCC				TEST_POINT -single strip line connector	TH			
31	1	W6	GND				TEST_POINT -single strip line connector	TH			
32	1	W7	CLK				TEST_POINT -single strip line connector	TH			
33	1	W9	DATN				TEST_POINT -single strip line connector	TH			+A1A1:L37