

BILL OF MATERIALS

POWER PART SECTION

Item	Qty	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/Other Code	More Info
1	4	C1,C4,C7,C10	220n	20%	50V		CERAMIC CAP.		ANY			
7	4	C2,C5,C8,C11	47uF	20%	100V		CAP POLY RAD.				228-7091	
3	4	C3,C6,C9,C12	220p		16V		SMD MULT.CERAMIC CAP.	0805				
	1	C45	10uF	20%	16V		electrolytic					
4	1	C46	100nF	10%	16V		SMD MULT.CERAMIC CAP.	0805	ANY			
5	1	C43	10uF	20%	16V		CAP POLY RAD.	0805	ANY			
6	4	D1,D2,D3,D4	STPS1L60A				POWER SCHOTTKY RECTIFIER	SMA	ST	STPS1L60A		
8	6	J1,J2,J3,J5,J7,J26			300VAC/10A		CONNECTOR	TH			425-8720	
	1	D12	1N4001		1A 50V			D0-41	vishay		628-8931	
13	4	L1,L2,L3,L4	820uH		1A		INDUCTOR		COILCRAFT			
14	4	Q1,Q2,Q3,Q4	STN3NF06		60V-4A		STripFET™ II Power MOSFET	SOT223	ST	STN3NF06		
15	4	R2,R5,R56,,R11	620 Ohm				THICK FILM RESISTOR	1206				
16	2	R1	10 Ohm			1/4W		1206	ANY			
17	4	R3,R6,R9,R12	0.68	1%		1/2W	THICK FILM RESISTOR	1206	CYNTEC	RLT16324R680FN-06		NOT MOUNTED
18	3	R7,R10,R60	10 Ohm	1%		1/4W	THICK FILM RESISTOR	1206	Any			

CONTROL PART SECTION

Item	Qty	Reference	Part / Value	Tolerance %	Voltage Current	WATT	TECNOLOGY information	PACKAGE	O	Manufacturer Code	RS/Distelec/Other Code	More Info
1	12	C13,C18,C19,C28,C29,C30,C31,C36,C37,C38,C39,C40	100nF	20%	16V		SMD MULT.CERAMIC CAP.	0805	ANY			
2	2	C14,C16	22pF	5%	16V		SMD MULT.CERAMIC CAP.	0805	ANY			
3	1	C17	470n	5%	16V		SMD MULT.CERAMIC CAP.	0805	ANY			
4	1	C21	10nF	5%	16V		SMD MULT.CERAMIC CAP.		ANY			
5	9	C15,C24,C25,C26,C27,C41,C42,C43,C44	180pF	20%	16V		SMD MULT.CERAMIC CAP.	0805	ANY			
8	5	D5,D6,D7,D8,D11	LED Diode				LED Diode	1206	ANY			
9	1	C20	10uF	20	16V		SMD TANTALIO	0805			6845092	
10	1	J9	Comm Connector				Strip-line female		ANY			
11	1	J10	CON4A				Strip-Line male		ANY			4 way single row strip line connector (male connector) 2,54mm pitch-VERTICAL THROUGH HOLE
12	1	J11	swim connector				4 wires connector		www.emi.com	214012	247-600 (RS Component)	
14	1	J13	JOYSTICK-MT008-A				multi switch function		DSL	MT008-A	http://www.digitallehrer.de/en/products/switches/multi-function-switch	Wealth Metal Factory
18	1	L5	BEAD				Inductance	SM/L_1806	MURATA	BLM41PG600SN1L	490-1058-1-ND(digi-key component)	
19	1	P1	10k				Potentiometer					
20	6	R13,R32,R33,R34,R35,R36	10K			1/4W	THICK FILM RESISTOR	0805	Any			
21	1	R14	1M			1/4W	THICK FILM RESISTOR	1206	Any			
22	1	R15	68			1/4W	THICK FILM RESISTOR	0805	Any			

PROJECT NAME: STEVAL-ILL031V1

April 29, 2010

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23	12	R16,R17,R23,R40,R41,R42,R43,R45,R19,R28,R29,R30	0			1/4W	THICK FILM RESISTOR	0805	Any			
24	5	R24,R25,R26,R27,R80	1k			1/4W	THICK FILM RESISTOR	0805	Any			
25	4	R18,R20,R21,R22	4.7k			1/4W	THICK FILM RESISTOR	0805	Any			
25A	1	R81	3K			1/4W	THICK FILM RESISTOR	0805				
26	1	R37	100			1/4W	THICK FILM RESISTOR	0805	Any			
27		SW1	reset				PUSHBUTTON		EAO		378-6426(RSCOMPONENT)	
30	1	X1	24MHz				SMT Cristal				478-9549 RS Component	
31	1	U1	STM8S208RB					LQFP64	ST	STM8S208RBT6		
32	4	SPACER	NYLON	3X10MM					Any			