

		PROJECT NAME: STEVAL-ISV018V1.			October 29, 2013
BILL OF MATERIALS					

Item	Quantity	Reference	Part / Value	Voltage Current	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	More Info
1	12	C1, C2, C3, C4, C16, C17, C18, C21, C24, C25, C26, C29	100nF	50V		0603	MURATA EPCOS	GRM188R71C104KA01 C1608X7R1H104K	Bootstrap capacitors
13	3	C11, C37, C39	1µF	50V		1206	MURATA EPCOS	GRM31MR71H105KA88 C3216X7R1H105K\	Input supply pin Capacitor
16	3	C5 C36 C38	4.7uF	50V		1210	MURATA EPCOS	GRM32ER71H475KA88K C3225X7R1H475K	Input capacitor
19	3	C9, C14, C22	220pF	50V		0603	MURATA EPCOS	GRM188R71E221KA01 C1608C0G1H221J	Voltage Sensing Capacitor
22	3	C8, C19, C27	22nF	25V		0603	MURATA EPCOS	GRM188R71C223KA01 C1608X7R1H223K	Compensation capacitor
25	3	C10, C15, C23	220pF	50V		0603	MURATA EPCOS	GRM188R71E221KA01 C1608C0G1H221J	Voltage Sensing capacitor
28	3	C7, C20, C28	470nF	25V		0603	MURATA EPCOS	GRM188R71A474KA61 C1608X7R1C474K	Internal Reference Voltage capacitor
31	18	C6, C12, C13, C40, C41, C42 C30, C31, C32, C43, C44, C48 C33, C34, C35, C45, C46, C47	10uF	50V		1210	MURATA	GRM32ER71H106KA12L	Output capacitor
49	3	D3, D9, D11	STPS160U	1A, 60V		SMB	ST	STPS160U	Noise Filter on Supply pin
52	3	R1 R11 R18	1.2MΩ			0603	VISHAY	D11/CRCW0603 1.2M	Input Voltage Partitioning Resistor
55	3	R2 R12 R19	110kΩ			0603	CYNTEC	RR0816R-114-DN-11	Input Voltage Partitioning Resistor
58	3	R3 R9 R16	3.9MΩ			0603	VISHAY	D11/CRCW0603 4.3M 1%	output Voltage Partitioning Resistor
61	3	R4 R10 R17	110kΩ			0603	CYNTEC	RR0816R-114-DN-11	output Voltage Partitioning Resistor
64	3	R5 R13 R20	1kΩ			0603	CYNTEC	RR0816R-102-DN-11	Compensation resistor
67	3	R6, R8, R15	0Ω			0603			Pull up resistor (Note: R6 must be removed if R7 is soldered)

		PROJECT NAME: STEVAL-ISV018V1.			October 29, 2013
BILL OF MATERIALS					

Item	Quantity	Reference	Part / Value	Voltage Current	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	More Info
70	0	R7 (optional) R14 (optional) R21 (optional)	Depending on desired Fsw			0603			Oscillator Resistor (Note: R6 must be removed if R7 is soldered)
70	12	L1, L2, L3, L4 L5, L6, L7, L8 L9, L10, L11, L12	47uH				EPCOS	B82477G4473M003	Phase x (x=1..4) Inductors
							COILCRAFT	MSS1278T-473ML	
							CYNTEC	PIMB136T-470MS-11	
							MURATA	49470SC	
82	3	D1 D10 D12	SPV1001N30			MLPD	ST	SV1001-N30	Bypass Diodes
85	3	D2 D4 D8	SPV1001N40	10A, 40V		MLPD	ST	SPV1001-N40	Bypass Diodes
88	3	J35 J37 J38	SPV1020			PSS036	ST	SPV1020	ST SUPPLY
91	3	D5 D6 D7	SMBJ36CA	600W, 40V		SMB	ST	SMBJ36A-TR	600W, 40V unidirectional protection transistor
94	0	R22, R23 (DNM)	0Ω	1.5W	2512	2512	VISHAY	CRCW25120000Z0EGHP	Output Series Connection Switch
94	4	R24, R25, R26, R27	0Ω	1.5W	2512	2512	VISHAY	CRCW25120000Z0EGHP	Output Parallel Connection Switch
98	2	J47, J48	OUTPUT CONNECTOR			TH	BEE-RYONG Electronics Co	BR-112	Output Connector