

Project name :STEVAL-ILB001V2 BOM list

220V input version

Name	Designator	Parameter	Quantity	Package	Note		Supplier
Fuse	R Fuse	1Ω±10%--0.5W	1	RJ15	0.5W		
Resistor							
14	R1	82Ω±10%--0.5W	1	RJ15	0.25W		
	R2	4.7Ω±10%--0.25W	1	RJ14			
	R4	8.2Ω±10%--0.25W	1	RJ14			
	R12	39Ω±10%--0.25W	1	RJ14			
	R3, R6	220Ω±10%--0.25W	2	RJ14			
	R8	1KΩ±10%--0.25W	1	RJ14			
	R9	22KΩ±10%--0.25W	1	RJ14			
	R11	56KΩ±10%--0.25W	1	RJ14			
	R13, R14	180KΩ±10%--0.25W	2	RJ14			
	R5, R7	330KΩ±10%--0.25W	2	RJ14			
	R10	680KΩ±10%--0.25W	1	RJ14			
Capacitor							
15	C9	1nF/16V±10%	1		CBB		
	C5	47nF/100V±10%	1		CBB		
	C6,C7	220nF/100V±10%	2		CBB		
	C2	470nF/100V±10%	1		CBB		
	C11	47nF/400V±10%	1		CBB		
	C1	220nF/400V±10%	1		CBB		
	C13,C14,C15	100nF/400V±10%	3		CBB		
	C12	6.8nF/1000V±10%	1		CBB		
	C8	1.5nF/630V±10%	1				
	C10	10uF/35V±20%	1		E-cap		
	C3	1uF/100V±20%	1		E-cap		
	C4	22uF/450V±20%	1		E-cap		

Diode	D1,D2,D3, D4,D5	1N4007	5					
13	D6	1N5818/N	1		schottky diode			ST
	D7,D9,D10, D11,D17	BA159	5					
	D8,D13	1N4148	2					
Zener diode	Dz1	5.6V/0.5W	1		Zener diode			
	Dz2	47V/0.5W	1		Zener diode			
	D15	100V/0.5W	1		Zener diode			
	D16	200V/0.5W	1		Zener diode			
Jump	D14							
PTC	PTC	R(25°C)=120Ω	1					
Inductor	L1	1.8mH (1.7A)	1		Isat≥1.7A Magnetica			Epcos
	L2	100uH	1		Axial Inductor0.5W			
	L3	1mH	1		Axial Inductor1W			
Transformer	T	Lp=2.3mH, Isat=1.7A	1		Magnetica			TDK
Transistor	Q1	BUL804	1		bipolar			ST
	Q2	STX724	1		bipolar			ST
	Q3	BUL3N7	1		bipolar			ST
	Q4	BUL3P5	1		bipolar			ST
SCR	SCR	X0202NA	1	TO-92				ST
Connector	J1			TRH	RS	329-2268	5mm	2PIN
	J2			TRH	RS	329-2296	5mm	6PIN