



# Bill of Material

Sales code: <b>STEVAL-ISA057V1</b>	Project code:
Company: <b>STMicroelectronics</b>	Project name: <b>15 W wide range SMPS for metering based on ESBT STC03DE220HV and L6565 PWM controller</b>

Index	Quantity	Reference	Value / Generic Part Number	Package / Class	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Supplier	Supplier's ordering code
1	1	C1	2n2/700VAC	AXIALcap-RM15mm	EPCOS	B32672L8222K000	EPCOS	B32672L8222K00
2	1	C2	100n	capacitor, SMD 0805	AVX			
3	2	C3, C4	1000uF/10V	elyt. capacitor, radial, RM 5mm	Rubycon		SEMIC	E=1000M/10KMX 10*20
4	1	C5	100n	capacitor, SMD 0805	AVX			
5	1	C6	68nF	capacitor, SMD 0805	AVX			
6	1	C7	47uF/50V	elyt. capacitor, radial, RM 2.5mm	Rubycon		SEMIC	E=47M/50 GLR 6.3*11
7	3	C8, C11, C13	33uF/450V	elyt. capacitor, radial, RM 7.5mm	Rubycon		SEMIC	E=33M/450 KMX 16*35
8	1	C9	2.2 uF/50V	elyt. capacitor, radial, RM 2.5mm	Rubycon		SEMIC	E=2.2/50 RH 5*11
9	1	C10	10n	capacitor, SMD 0805	AVX			
10	1	C12	12n	capacitor, SMD 0805	AVX			
11	1	C14	100p	capacitor, SMD 0805	AVX			
12	1	C15	100uF/25V	elyt. capacitor, radial, RM 2.5mm	Rubycon		SEMIC	E=100M/25 RH 6.3*11
13	1	C16	10n	capacitor, SMD 0805	AVX			
14	1	C17	470p	capacitor, SMD 0805	AVX			
15	1	C18	33p	capacitor, SMD 0805	AVX			
16	1	C19	47n	capacitor, SMD 0805	AVX			
17	1	R1	10R	NTC resistor B57237S100M; RM 7.5mm	EPCOS	B57237S100M	EPCOS	B57237S100M
18	2	R2, R3	120k	resistor 0207; 0.6W	Vishay			
19	6	R4, R6, R11, R15, R19, R25,	56k	resistor, SMD 1206	Vishay			
20	1	R5	not connected	resistor 0207; 0.6W	Vishay			
21	6	R8, R13, R17, R23, R28, R30	200k	resistor, SMD 1206	Vishay			
22	6	R9, R14, R18, R24, R29, R31	1M8	resistor, SMD 1206	Vishay			
23	1	R10	680k	resistor, SMD 0805	Vishay			

24	1	R7	2k2	resistor, SMD 0805	Vishay			
25	1	R12	56k	resistor, SMD 0805	Vishay			
26	2	R16, R21	12k	resistor, SMD 0805	Vishay			
27	1	R22	910R	resistor 0207; 0.6W	Vishay			
28	1	R26	22R	resistor, SMD 0805	Vishay			
29	1	R20	1R5	resistor, SMD 1206	Vishay			
30	1	R27	82k	resistor, SMD 0805	Vishay			
31	1	R41	22k	resistor, SMD 0805	Vishay			
32	1	R32	1k	resistor, SMD 0805	Vishay			
33	2	R33, R34	3R9	resistor 0207; 0.6W	Vishay			
34	1	R35	10k	resistor, SMD 0805	Vishay			
35	1	R36	910R	resistor, SMD 0805	Vishay			
36	1	R37	33k	resistor, SMD 0805	Vishay			
37	1	R39	470R	resistor, SMD 0805	Vishay			
38	1	R40	270k	resistor, SMD 0805	Vishay			
39	2	R38, R42	10k	resistor, SMD 0805, 1%	Vishay			
40	4	D1, D6, D8, D9	BAV103	diode, SOD80	Vishay		GM	924-031
41	1	D4	STPS1150A	diode, DO-214AC	STMicroelectronics			
42	2	D2, D5	STTH112A	HV diode, SMA	STMicroelectronics			
43	1	D3	STPS10L60D	power schottky rectifier, TO-220AC	STMicroelectronics			
44	1	D7	BZV55C15SMD	Zener diode, SOD80, 15V	Vishay		GM	919-006
45	1	D10	BZV55C18SMD	Zener diode, SOD80, 18V	Vishay		GM	919-007
46	1	Q1	2STF1360	NPN transistor, SOT-89	STMicroelectronics			
47	1	Q2	STC03DE220HV	ESBT, TO247-4L HV	STMicroelectronics			
48	4	Q3, Q5, Q6, Q7	BC847A	NPN transistor, SOT-23	Fairchild		GM	912-015
49	1	Q4	STP03D200	NPN Darlington, TO-220	STMicroelectronics			
50	1	U1	L6565D	PWM smart driver, SO-8	STMicroelectronics			
51	1	F1	Fuse 1A	Fuse 1A, slow				
52	1	J1	ARK210/3	connector ARK, RM 5mm	ARK		GM	821-004
53	1	J2	ARK210/2	connector ARK, RM 5mm	ARK		GM	821-003
54	2	T1	Egston 39663	Transformer Egston ETD29 core	Egston	39663	Egston	39663
55	2	Het1, Het2	V7142A	Heatsink V7142A	Pada engineering		GM	620-030
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63								
64	1	Fuse holder	KS21SW WITH COVER	Header for fuse with plastic cover			GM	829-051
65	4	4x Nylon spacers (1cm long, M3, screw)						
66	1	Isolation for heat-sink - TO-247						
67	1	CD/DVD burning						

68	1	CD/DVD Label						
69	1	Box Label						
70								
71								
72								