

## Bill of materials

Table 1. BOM

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	1	U1	L6983IQTR QFPN 16L 3x3x0.8mm	38V 10W synchronous iso- buck converter for isolated applications	ST	L6983IQTR
2	1	U2	N = 6, 2kV isolation	Transformer 10pins, EPQ13	Coilcraft	ZB1346-AE
3	1	U3	LDO40LPURY DFN6 3x3mm	400mA, 38V LDO (not mounted)	ST	LDO40LPURY
4	1	R1	-	0603 SMD resistor (not mounted)	-	-
5	1	R2	-	0603 SMD resistor (not mounted)	-	-
6	1	R3	-	0603 SMD resistor (not mounted)	-	-
7	1	Rb	0Ω, 1%, 0.25W	0603 SMD resistor	-	-
8	1	Rbs	0Ω, 1%, 0.25W	0603 SMD resistor	-	-
9	1	Ren1	100kΩ, 1%, 0.25W	0603 SMD resistor	-	-
10	1	Ren2	-	0603 SMD resistor (not mounted)	-	-
11	1	Rf1	-	0603 SMD resistor (not mounted)	-	-
12	1	Rf2	-	0603 SMD resistor (not mounted)	-	-
13	1	Rfb1	360kΩ, 1%, 0.25W	0603 SMD resistor	-	-
14	1	Rfb2	75kΩ, 1%, 0.25W	0603 SMD resistor	-	-
15	1	Rfsw1	-	0603 SMD resistor (not mounted)	-	-
16	1	Rfsw2	0Ω, 1%, 0.25W	0603 SMD resistor	-	-
17	1	Rldo	100Ω, 1%, 0.25W	0603 SMD resistor	-	-
18	1	Rpg1	-	0603 SMD resistor (not mounted)	-	-
19	1	Rpg2	-	0603 SMD resistor (not mounted)	-	-
20	1	Rs1	-	0805 SMD resistor (not mounted)	-	-
21	1	Rs2	300Ω, 1%, 0.5W	0805 SMD resistor	-	-
22	1	Clldo	1μF, 50V, 10%	0603 MLCC	Samsung Electro Mechanics	CL10A105KB8NUNC

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23	1	C1	-	0603 MLCC (not mounted)	-	-
24	1	Cb	100nF, 50V, 10%	0603 MLCC	TDK	CGA3E2X7R1H104K080AA
25	1	Cbs	-	0603 MLCC (not mounted)	-	-
26	1	Cck	-	0603 MLCC (not mounted)	-	-
27	3	Cf1,Cf2, Cf3	10µF, 50V, 10%	1206 MLCC	Samsung Electro Mechanics	CL31B106KBHNNNE
28	1	Cff	-	0603 MLCC (not mounted)	-	-
29	1	Cin1	10µF, 50V, 10%	1206 MLCC	Samsung Electro Mechanics	CL31B106KBHNNNE
30	2	Cin2 Cin3	1µF, 50V, 20%	0805 MLCC	TDK	CGA4J3X7R1H105M125AB
31	1	Cin4	100µF, 50V, 20%	Aluminum organic polymer capacitor 10x10mm	KEMET	A768MS107M1HLAV024
32	2	Ciso+ Ciso-	-	0805 MLCC (not mounted)	-	-
33	3	Cout1 Cout2 Cout3	22µF, 16V, 20%	1206 MLCC	Taiyo Yuden	EMK316BB7226ML-T
34	1	Cout4	-	0603 MLCC	-	-
35	1	Cs1	-	0603 MLCC	-	-
36	1	Cs2	180pF, 50V, 1%	0603 MLCC	Vishay	VJ0603A181FXAPW1BC
37	1	Csec	10µF, 50V, 10%	1206MLCC	Samsung Electro Mechanics	CL31B106KBHNNNE
38	1	Cvcc	1µF, 16V, 10%	0603 MLCC	TDK	CGA3E1X7R1C105K080AC
39	1	Lf1	220Ω (100MHz), 25%	0805 Ferrite bead	TDK	MPZ2012S221ATD25
40	1	Lf2	6.8µH	4x4mm Inductor	Coilcraft	XGL4030-682MEC
41	1	D1	170V, 1A	Power schottky rectifier, SMA Flat	ST	<a href="#">STPS1170AF</a>
42	1	Dz1	SOD123 package	Zener Diode (not mounted)	-	-
43	1	Dz2	SOD123 package	Zener Diode (not mounted)	-	-
44	1	Q1	SOT23 package	NPN BJT (not mounted)	ST	<a href="#">2STR1215</a>
45	12	TP1 to TP12	-	Turret solder/press mount	ETTINGER	13.14.239



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				terminal 1.3mm – 13.5mm – 5mm		

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