Bill of materials

Table 1. STEVAL-10001IY1M bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	-	CIN1	-	Aluminum Electrolythic capacitor (not mounted)		
2	1	CIN2	100nF	MLCC	Murata Electronics	GCJ188R72A104KA01J
3	1	CIN3	4.7uF	MLCC	TDK	CGA6M3x7s2A475K200AE
4	1	COUT1	10uF	MLCC	TDK	CGA5L1X7R1V106M160AE
5	-	COUT2	-	MLCC (not mounted)		
6	-	COUT3	-	MLCC (not mounted)		
7	1	CISO1	10uF	MLCC	TDK	CGA5L1X7R1V106M160AE
8	1	CB1	100nF	MLCC	Murata Electronics	GCJ188R72A104KA01J
9	1	CVDD1	1uF	MLCC	TDK	CGA3E3X5R1H105K080AB
10	-	CFF1	-			
11	1	CS1	330pF	MLCC	Kyocera	KAF15AR81H331KM
12	1	CF1	2.2uF	MLCC	TDK	CGA6M3X7S2A475K200AB
13	1	CF2	2.2uF	MLCC	TDK	CGA6M3X7S2A475K200AB
14	1	CF3	2.2uF	MLCC	TDK	CGA6M3X7S2A475K200AB
15	1	CGND1	4.7nF	MLCC	Murata Electronics	GR443DR73D472KW01L
16	1	REN1	10kΩ	chip resistor	Yageo	AF0603FR-0710KL
17	-	REN2	-	chip resistor		
18	1	RFB1	30kΩ	chip resistor	TE Connectivity	CRG0603F30K
19	1	RFB2	1.2kΩ	chip resistor	Wurth Elektronik	560112116040
20	1	RON1	82kΩ	chip resistor	Wurth Elektronik	560112116085
21	1	RB1	0kΩ	chip resistor	SEI Stackpole	RMCA0603ZT0R00-HP
22	1	RS1	180Ω	chip resistor	Panasonic	ERJ-T06J181V
23	1	DS1	STPS1150AY, SMA	Schottky diode	ST	STPS1150AY
24	1	LF1	Ferrite bead		Taiyo Yuden	FBMH3225HM601NT
25	1	LF2	XGL4030-123MEC	Inductor	Coilcraft	XGL4030-123MEC
26	4	J2, J14, J16, J31		Jumper	Ettinger	013.14.239
27	2	J32, J7		Jumper (not mounted)		
28	2	RW1, RW2		tin drop		
29	1	U1	DCP10001IPHRY, HSOP8	isobuck converter	ST	DCP10001IPHRY
30	1	T1	ZG3569-AE	transformer	Coilcraft	

Table 2. Main parameters of the transformer ZG3569-AE

Parameter	Value
Turn ratio	1:1.3

Parameter	Value
Magnetizing inductance (typ.)	60 µH
Leakage inductance (typ.)	560 nH
Primary winding resistance (max.)	170 mΩ
Secondary winding resistance (max.)	350 mΩ

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