# Bill of materials

**Table 1. STEVAL-10001Y12V bill of materials**

| Item | Q.ty | Ref. | Part/value | Description | Manufacturer | Order code |
|---|---|---|---|---|---|---|
| 1 | 1 | C1,C15,C16 | 100nF | AEC-Q200 Ceramic CAP 100nF, 100V, 0603, X7S, ±10% | Murata | GCJ188R72A104KA01 |
| 2 | 1 | C2 | 4.7uF | AEC-Q200 Ceramic CAP 4.7uF, 100V, 1210, X7S, ±10% | Murata | GGM32DC72A475KE02 |
| 3 | 1 | C3 | 1uF | AEC-Q200 Ceramic CAP 1uF, 25V, 0603, X7S, ±10% | Murata | GCM188R71E105KA |
| 4 | 2 | C4,C5 | 10uF | AEC-Q200 Ceramic CAP 10uF, 50V, 1210, X7T, ±10% | Murata | GRT31CD71H106KE13 |
| 5 | 1 | C7 | 100nF | AEC-Q200 Ceramic CAP 100nF, 25V, 0603, X7S, ±10% | Murata | GCJ188R71E104KA12 |
| 6 | 1 | C8 | 390p | AEC-Q200 Ceramic CAP 390nF, 25V, 0603, X7S, ±10% | Murata | GCM1885C1H391JA16 |
| 7 | 1 | C11 | NC | NC CAP, AL, 33 µF, 100 V, ±20%, 0.7 ohm,AEC-Q200 Grade 2, SMD (not mounted) | Panasoinc | EEE_FK2A330P |
| 8 | 2 | C12,C13 | 2.2uF | AEC-Q200 Ceramic CAP 2.2uF, 100V, 1210, X7S, ±10% | TDK | CGA6N3X7R2A225K230AB |
| 9 | 1 | C14 | NC | (not mounted) | | |
| 10 | 1 | L1 | 68uH | Inductor, Shielded Drum Core, Ferrite 68uH,2.1A,110mOhm AEC-Q200 Grade1 | Wurth | 7447714680 |
| 11 | 1 | L3 | 12uF | Inductor, Shielded Power Inductors , 12µH, 2.1 A, 0.0785 ohm, AEC-Q200 | Coilcraft | XGL4030-123 |
| 12 | 1 | L4 | 2000 ohm | Ferrite Bead, 2000 Ohm @100MHz, 1.2A | Taiyo Yuden | FBMH3225HM202NT |
| 13 | 2 | R17,R18 | n.m. | | | |
| 14 | 1 | R2 | 51K1 | ERJ3EKF5112V | Panasonic | ERJ3EKF5112V |
| 15 | 1 | R4 | NC | (not mounted) | | |
| 16 | 1 | R5 | 10k | MP003561 | Multicomp Pro | MP003561 |
| 17 | 1 | R6 | 51K | ERJ3EKF5102V | Panasonic | ERJ3EKF5102V |
| 18 | 4 | R7,R19, R16,R1 | 0 Ohm | WCR0603-R005JI | Panasonic | WCR0603-R005JI |
| 19 | 1 | R9 | NC | | | |
| 20 | 1 | R15 | 3K65 | ERJ3EKF3651V | Panasonic | ERJ3EKF3651V |
| 21 | 2 | JP25,J24 | header | 2 Way, 1 Row, Straight Pin Header, 2,54 mm pitch, 6mm height | TE Connectivity | 826936-2 |
| 22 | 4 | J7, J17 , J15, J8 | terminal pin | Brass terminal pin | Ettinger | 013.14.239 |
| 23 | 1 | U1 | DCP10001PHRY, PowerSO-8 | Automotive 100V / 1A step-down DC/DC regulator | ST | DCP10001PHRY |
| 24 | 4 | Standoffs & Spacers | | Standoffs & Spacers NYLON 1"X.25" | Keystone Electronics | 1902E |

| Item | Q.ty | Ref. | Part/value | Description | Manufacturer | Order code |
|---|---|---|---|---|---|---|
| 25 | 4 | SCREW | | SCREW NYLON | BFirst Industrial | NY PMS 440 0025 PH |

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