

STEVAL-TSP005V2

| Item | Reference | Description | Value | PCB Footprint | Supplier | Voltage |
|------|-----------|-------------------|-----------|---------------|-----------------------|---------|
| 1 | C1 | Ceramic Capacitor | 1nF | C0805 | Several | 100V |
| 2 | C2 | Ceramic Capacitor | 0.1uF | C0805 | Several | 100V |
| 3 | C5 | Ceramic Capacitor | 10nF | C0603 | Several | 100V |
| 4 | C7 | Ceramic Capacitor | 10nF | C0603 | Several | 100V |
| 5 | C10 | Ceramic Capacitor | 1nF | C0805 | Several | 100V |
| 6 | C11 | Ceramic Capacitor | 0.1uF | C0805 | Several | 100V |
| 7 | C12 | Elect. Capacitor | 22uF | C-POL8-10 | Panasonic EEEFK2A220P | 100V |
| 8 | C13 | Ceramic Capacitor | 1nF | C0805 | Several | 100V |
| 9 | C14 | Ceramic Capacitor | 0.1uF | C0603 | Several | 50V |
| 10 | C15 | Ceramic Capacitor | 0.1uF | C0805 | Several | 100V |
| 11 | C16 | Ceramic Capacitor | 10nF | C0603 | Several | 100V |
| 12 | C17 | Ceramic Capacitor | NM | C1206 | Several | 100V |
| 13 | C18 | Ceramic Capacitor | 1nF | C0603 | Several | 100V |
| 14 | C19 | Ceramic Capacitor | 1nF | C0603 | Several | 100V |
| 15 | C20 | Ceramic Capacitor | 1uF | C1206 | Several | 100V |
| 16 | C21 | Ceramic Capacitor | 470pF | C0603 | Several | 50V |
| 17 | C22 | Ceramic Capacitor | 0.1uF | C0603 | Several | 50V |
| 18 | C23 | Ceramic Capacitor | 0.1uF | C0603 | Several | 50V |
| 19 | C24 | Ceramic Capacitor | 1nF | C0805 | Several | 200V |
| 20 | C26 | Ceramic Capacitor | 1nF | C0805 | Several | 200V |
| 21 | C27 | Ceramic Capacitor | 27pF | C0805 | Several | 50V |
| 22 | C28 | Ceramic Capacitor | 1uF | C0603 | TDK C1608X5R1E105K | 25V |
| 23 | C29 | Ceramic Capacitor | 1nF | C0805 | Several | 200V |
| 24 | C30 | Ceramic Capacitor | 2.2nF | C1812 | TDK 4532X7R3D222K | 2KV |
| 25 | C31 | Ceramic Capacitor | 1nF | C0805 | Several | 200V |
| 26 | C33 | Ceramic Capacitor | 0.1uF | C0603 | Several | 50V |
| 27 | C35 | Ceramic Capacitor | 2.2nF | C1812 | TDK 4532X7R3D222K | 2KV |
| 28 | C37 | Ceramic Capacitor | 560pF | C0805 | Several | 50V |
| 29 | C38 | Ceramic Capacitor | 22uF | C1206 | TDK C3216X5R1E226M | 16V |
| 30 | C41 | Ceramic Capacitor | 22uF | C1206 | TDK C3216X5R1E226M | 16V |
| 31 | C47 | Ceramic Capacitor | 22uF | C1206 | TDK C3216X5R1E226M | 16V |
| 32 | C48 | Ceramic Capacitor | 1uF | C0603 | TDK C1608X5R1E105K | 25V |
| 33 | C51 | Ceramic Capacitor | 22nF | C0603 | Several | 50V |
| 34 | C53 | Elect. Capacitor | 330uF | C-POL8-6_3 | Panasonic EEEFK1C331P | 16V |
| 35 | C54 | Ceramic Capacitor | 100pF | C0603 | Several | 50V |
| 36 | C56 | Ceramic Capacitor | 0.1uF | C0603 | Several | 50V |
| 37 | D3 | Diode Bridge | DF01S | DF01S | Diodes | |
| 38 | D5 | Zener Diode | BZX84C10 | SOT23 | Several | |
| 39 | D10 | Diode Bridge | DF01S | DF01S | Diodes | |
| 40 | D14 | Diode | STTH2R02A | SMA | STMicroelectronics | |
| 41 | D15 | Diode | STTH2R02A | SMA | STMicroelectronics | |
| 42 | D18 | TVS Diode | SMAJ58A | SMA | STMicroelectronics | |
| 43 | D19 | LED Diode | Green LED | LED-TLGE1100B | Toshiba | |
| 44 | D21 | Diode | BAT46J | SOD323 | STMicroelectronics | |
| 45 | D23 | Diode | BAT46J | SOD323 | STMicroelectronics | |

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| 46 | D28 | Schottky Diode | PMEG4050EP | SOD128 | NXP | |
| 47 | D36 | LED Diode | Green LED | LED-TLGE1100B | Toshiba | |
| 48 | J1 | Connector | RJ45 Data and Power Jack | RJ45-8PIN | Several | |
| 49 | J2 | Connector | RJ45 Data Jack | RJ45-8PIN | Several | |
| 50 | J3 | Connector | CON3 | P-JACK-RAPC722 | Switchcraft | |
| 51 | J4 | Connector | CON3 | P-JACK-RAPC722 | Switchcraft | |
| 52 | J6 | Connector | MOR-10X10.5-P5-2PIN | MOR-2POLI-508 | Several | |
| 53 | L1 | Inductor | 5.6 uH | ME3220-562ML | Coilcraft | |
| 54 | L4 | Inductor | 0.33uH | LPS4012-331L | Coilcraft | |
| 55 | Q1 | Mosfet | STS4NF100 (suggested replacement: STS5N15F4) | SO8 | STMicroelectronics | |
| 56 | Q2 | Mosfet | FDN86246 | SOT23 | Fairchild | |
| 57 | R1 | Resistor | 15K | R0805 | Several | |
| 58 | R2 | Resistor | 47K | R0805 | Several | |
| 59 | R3 | Resistor | 47K | R0805 | Several | |
| 60 | R4 | Resistor | 470K | R0805 | Several | |
| 61 | R5 | Resistor | 15K | R0805 | Several | |
| 62 | R8 | Resistor | 10k | R0603 | Several | |
| 63 | R10 | Resistor | 10k | R0603 | Several | |
| 64 | R11 | Resistor | 52R3-1% | R0805 | Several | |
| 65 | R13 | Resistor | 22k1-1% | R0603 | Several | |
| 66 | R14 | Resistor | 10R | R0603 | Several | |
| 67 | R15 | Resistor | 0R0 | R0805 | Several | |
| 68 | R16 | Resistor | 0R0 | R0805 | Several | |
| 69 | R17 | Resistor | 124k-1% | R0603 | Several | |
| 70 | R19 | Resistor | 510R | R0603 | Several | |
| 71 | R20 | Resistor | 4k7 | R0603 | Several | |
| 72 | R23 | Resistor | 0R0 | R0805 | Several | |
| 73 | R24 | Resistor | 75R | R0805 | Several | |
| 74 | R25 | Resistor | 56R | R0805 | Several | |
| 75 | R27 | Resistor | 75R | R0805 | Several | |
| 76 | R29 | Resistor | 75R | R0805 | Several | |
| 77 | R30 | Resistor | 200R | R1206 | Several | |
| 78 | R31 | Resistor | 75R | R0805 | Several | |
| 79 | R32 | Resistor | 10R | R0603 | Several | |
| 80 | R33 | Resistor | 10k | R0603 | Several | |
| 81 | R35 | Sense Resistor | 0.33 ohm-1% | R1206 | Vishay - RCWE1206R330FKE | |
| 82 | R36 | Resistor | 1K0 | R0603 | Several | |
| 83 | R37 | Resistor | 0R0 | R0603 | Several | |
| 84 | R40 | Resistor | 15R0 | R1206 | Several | |
| 85 | R43 | Resistor | 0R0 | R0805 | Several | |
| 86 | R44 | Resistor | 0R0 | R1206 | Several | |
| 87 | R48 | Resistor | 1K | R0603 | Several | |
| 88 | R50 | Resistor | 10R | R0603 | Several | |
| 89 | R51 | Resistor | 15K-1% | R0603 | Several | |
| 90 | R52 | Resistor | 47K-1% | R0603 | Several | |

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| 91 | R54 | Resistor | 4K7 | R0603 | Several | |
| 92 | R55 | Resistor | 20k - 1% | R0603 | Several | |
| 93 | R56 | Resistor | 12.4k - 1% | R0603 | Several | |
| 94 | T1 | Data Transfo | H2019NL / TLA-6T127LF | Pulse-H2019 | Pulse | |
| 95 | T3 | Power Transfo | POE13P-50L | POE13P | Coilcraft | |
| 96 | TP1 | Test Point | Red | TH-5013 | Keystone | |
| 97 | TP2 | Test Point | BLACK | TH-5013 | Keystone | |
| 98 | TP3 | Test Point | Red | TH-5013 | Keystone | |
| 99 | TP4 | Test Point | BLACK | TH-5013 | Keystone | |
| 100 | TP6 | Test Point | Red | TH-5013 | Keystone | |
| 101 | TP7 | Test Point | BLACK | TH-5013 | Keystone | |
| 102 | TP8 | Test Point | Red | TH-5013 | Keystone | |
| 103 | TP9 | Test Point | BLACK | TH-5013 | Keystone | |
| 104 | TP10 | Test Point | Red | TH-5013 | Keystone | |
| 105 | TP11 | Test Point | Red | TH-5013 | Keystone | |
| 106 | TP12 | Test Point | BLACK | TH-5013 | Keystone | |
| 107 | TP13 | Test Point | Red | TH-5013 | Keystone | |
| 108 | TP14 | Test Point | Red | TH-5013 | Keystone | |
| 109 | TP16 | Test Point | Red | TH-5013 | Keystone | |
| 110 | TP17 | Test Point | Red | TH-5013 | Keystone | |
| 111 | TP19 | Test Point | BLACK | TH-5013 | Keystone | |
| 112 | U1 | Controller IC | PM8800A | HTSSOP16 | STMicroelectronics | |
| 113 | U2 | Optocoupler | Fairchild FOD817A | FOD817 | Fairchild | |
| 114 | U5 | Voltage Reference | TS431AILT | SOT23-5L | STMicroelectronics | |