

EVALSTGAP1AS - bill of material

| Part reference | Part value | Part description |
|--|-----------------------|-----------------------------------|
| C1 | 2.2 μ F, 25 V | SMT CERAMIC CAPACITOR, 1206 |
| C2 | 2.2 μ F, 50 V | SMT CERAMIC CAPACITOR, 1206 |
| C3, C16 | 100 nF, 25 V | SMT CERAMIC CAPACITOR, 0603 |
| C4, C6, C22, C23 | D. N. M. | SMT CERAMIC CAPACITOR, 0603 |
| C5 | 100 nF, 4 V | SMT CERAMIC CAPACITOR, 0603 |
| C7, C11 | 100 nF, 6.3 V | SMT CERAMIC CAPACITOR, 0603 |
| C8 | 150 pF, 50 V | SMT CERAMIC CAPACITOR, 0603 |
| C9, C13, C15 | 100 pF, 6.3 V | SMT CERAMIC CAPACITOR, 0603 |
| C10 | 100 nF, 50 V | SMT CERAMIC CAPACITOR, 0603 |
| C12 | 1 nF, 25 V | SMT CERAMIC CAPACITOR, 0603 |
| C14, C19 | 4.7 μ F, 6.3 V | SMT CERAMIC CAPACITOR, 0603 |
| C17,C18 | 1 μ F, 50 V | SMT CERAMIC CAPACITOR, 0805 |
| C20 | 4.7 μ F, 6.3 V | SMT CERAMIC CAPACITOR, 0603 |
| C21 | 47 pF, 6.3 V | SMT CERAMIC CAPACITOR, 0603 |
| DL1, DL2 | Red LED | SMT LED, 0805 |
| D1 | BAT54SFILM | SOT-23 |
| D2 | D. N. M. | SMB |
| D3 | STPS2H100A | SMA |
| D4 | BAT20JFILM | SOD323 |
| D5 | STTH112A | SMA |
| JP1, JP2, JP4, JP6, JP7 | Jumper (OPEN) | JP2SO |
| JP3, JP5 | Jumper (CLOSED) | JP2SO |
| J1 | PIN STRIP | STRIP254P-M-5x2-90 |
| J2 | Screw connector | MORSV-508-3P |
| J3 | PIN STRIP 1 x 4 | STRIP254P-M-5-split |
| J4 | DIL Male | CON-FLAT-5x2-180M |
| J5 | PIN STRIP | STRIP254P-F-5x2-90 |
| J6 | Screw connector | MORSV-508-2P |
| Q1 | STGW40H120DF2 | 1200 V 40 A N-Ch IGBT, TO-247 |
| Q3A1 | D. N. M. | TO-220 footprint for power switch |
| R10, R15 | 1 k Ω | SMT RESISTOR, 0603 |
| R2 | 0 Ω | SMT RESISTOR, 0805 |
| R3, R4, R5, R6 | 20 Ω | SMT RESISTOR, 1206 |
| R7 | 50 k Ω | SMT RESISTOR, 0603 |
| R8 | D. N. M. | SMT RESISTOR, 0603 |
| R1, R9 | 0 Ω | SMT RESISTOR, 0603 |
| R11, R14 | 750 Ω | SMT RESISTOR, 0603 |
| R12, R13, R16 | 100 Ω | SMT RESISTOR, 0603 |
| R17, R18, R19, R20, R21 | 0.2 Ω , 2W, 1% | SMT RESISTOR, 2512 |
| TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10 | Test point | |
| U1 | STGAP1AS | SO24W |