



## Bill of Materials for the D-STPR-GEVK Evaluation Board

| Designator                     | Quantity | Description  | Value          | Tolerance | Footprint                         | Manufacturer      | Manufacturer Part Number | Substitution Allowed | Lead Free |
|--------------------------------|----------|--|----------------|-----------|-----------------------------------|-------------------|--------------------------|----------------------|-----------|
| C2,C18                         | 2        | CAP CER 10UF 16V X5R   | 10µF 16V       | ±20%      | 0805                              | Würth Electronics | 885012107014             | Yes                  | Yes       |
| C4,C10                         | 2        | CAP CER 0.22UF 10V X7R   | 0.22µF 10V     | ±10%      | 0603                              | Würth Electronics | 885012206022             | Yes                  | Yes       |
| C5,C11,C19,C20                 | 4        | CAP CER 0.22UF 25V X7R   | 0.22µF 25V     | ±10%      | 0603                              | Würth Electronics | 885012206073             | Yes                  | Yes       |
| C6,C7,C12,C13                  | 4        | CAP CER 0.1UF 50V X7R  | 0.10µF 50V     | ±10%      | 0603                              | Würth Electronics | 885012206095             | Yes                  | Yes       |
| C15,C23                        | 2        | CAP CER 10UF 50V X7R   | 10µF 50V       | ±20%      | 1210                              | Taiyo Yuden       | UMK325AB7106MM-T         | Yes                  | Yes       |
| C16,C17                        | 2        | CAP ALUM 100UF 20% 50V   | 100µF 50V      | ±20%      | 0.394"                            | Würth Electronics | 865230657013             | Yes                  | Yes       |
| C21,C22                        | 2        | CAP CER 0.22UF 25V X7R   | 0.22µF 25V     | ±10%      | 0603                              | Würth Electronics | 885012206073             | Yes                  | Yes       |
| D8,D9                          | 2        | DIODE SCHOTTKY 60V 3A  | -              | -         | SMB                               | ON Semiconductor  | MBR3360BT3G              | No                   | Yes       |
| J1,J6                          | 2        | STACKING HEADER ARDUINO SHIELD   | -              | -         | -                                 | Samtec            | ESW-108-14-G-S           | Yes                  | Yes       |
| J2                             | 1        | STACKING HEADER ARDUINO SHIELD   | -              | -         | -                                 | Samtec            | ESW-110-14-G-S           | Yes                  | Yes       |
| J5                             | 1        | STACKING HEADER ARDUINO SHIELD   | -              | -         | -                                 | Samtec            | ESW-106-14-G-S           | Yes                  | Yes       |
| J8,J9                          | 2        | 6 Position Right Angle Through Hole Terminal Block Header, Male Pins       | -              | -         | Shrouded (4 Side) 0.098" (2.50mm) | Würth Electronics | 691382010006             | Yes                  | Yes       |
| J10                            | 1        | 2 Position Right Angle Through Hole Terminal Block Header, Male Pins       | -              | -         | Shrouded (4 Side) 0.150" (3.81mm) | Würth Electronics | 691322310002             | Yes                  | Yes       |
| J20,J21                        | 2        | 2 Positions Gold Through-Hole Header, Unshrouded Connector                 | -              | -         | 0.100" (2.54mm)                   | Würth Electronics | 61300211121              | Yes                  | Yes       |
| Q1                             | 1        | TRANS NPN 40V 0.6A   | -              | -         | SOT23                             | ON Semiconductor  | MMBT2222ALT1G            | No                   | Yes       |
| R1,R4,R5,R6,R9,R10,R11,R75,R76 | 9        | RES SMD 4.7K OHM 1% 1/10W  | 4.7K OHM 1/10W | 1%        | 0603                              | Yageo             | RC0603FR-074K7L          | Yes                  | Yes       |
| R14,R15,R16,R17                | 4        | RES SMD 10K OHM 1% 1/10W   | 10K OHM 1/10W  | 1%        | 0603                              | Vishay Dale       | CRCW060310K0FKEA         | Yes                  | Yes       |
| R18,R20,R22,R24,R77,R78        | 6        | RES SMD 0.0OHM JUMPER 1/10W  | Jumper         | -         | 0603                              | Yageo             | RC0603JR-070RL           | Yes                  | Yes       |
| R19,R21,R23,R25                | 4        | RES SMD 0.0OHM JUMPER 1/10W  | Jumper         | -         | 0603                              | Yageo             | RC0603JR-070RL           | Yes                  | Yes       |
| R70,R71                        | 2        | RES SMD 5.6K OHM 5% 1/10W  | 5.6K OHM 1/10W | 5%        | 0603                              | Yageo             | RC0603JR-075K6L          | Yes                  | Yes       |
| R72                            | 1        | RES SMD 10K OHM 1% 1/10W   | 10K OHM 1/10W  | 1%        | 0603                              | Vishay Dale       | CRCW060310K0FKEA         | Yes                  | Yes       |
| R73,R74                        | 2        | RES SMD 100 OHM 1% 1/10W   | 100 OHM 1/10W  | 1%        | 0603                              | Yageo             | RC0603FR-07100RL         | Yes                  | Yes       |
| SW3                            | 1        | Tactile Switch SPST-NO Top Actuated Surface Mount                          | -              | -         | 6.20mm x 6.20mm                   | Würth Electronics | 430182043816             | Yes                  | Yes       |
| TP3,TP4,TP5,TP6,TP7,TP8,TP9    | 7        | -  | -              | -         | -                                 | -                 | -                        | Yes                  | Yes       |
| U1,U2                          | 2        | Stepper Motor  | -              | -         | 32-QFN                            | ON Semiconductor  | AMIS30543C5431RG         | No                   | Yes       |
| U22                            | 1        | IC I/O EXPANDER I2C 16B  | -              | -         | QFN-24                            | ON Semiconductor  | PCA9655EMTTXG            | No                   | Yes       |
| J8_Female,J9_Female            | 2        | 6 Position 180° Free Hanging (In-Line) Terminal Block Plug, Female Sockets | -              | -         | 0.098" (2.50mm)                   | Würth Electronics | 691381000006             | Yes                  | Yes       |
| J10_Female                     | 1        | 2 Position 180° Free Hanging (In-Line) Terminal Block Plug, Female Sockets | -              | -         | 0.150" (3.81mm)                   | Würth Electronics | 691361300002             | Yes                  | Yes       |