



Bill of Materials for the FUSB302BGEVB Evaluation Board

| Designator | Quantity | Description                       | Value | Tolerance | Footprint       | Manufacturer     | Manufacturer Part Number | Substitution Allowed | Lead Free |
|------------|----------|-----------------------------------|-------|-----------|-----------------|------------------|--------------------------|----------------------|-----------|
| C1,10,11   | 3        | CAP CER 10UF 16V 10% X5R 0805     | 10uF  | 10%       | 805             | TDK              | C2012X5R1C106K085AC      | YES                  | YES       |
| C2, C16    | 2        | CAP CER 0.1UF 50V 10% X7R 0603    | 0.1uF | 10%       | 603             | TDK              | CGA3E2X7R1H104K080AA     | YES                  | YES       |
| C3,C5      | 2        | CAP CER 1UF 16V 10% X5R 060       | 1uF   | 10%       | 603             | TDK              | C1608X5R1C105K080AA      | YES                  | YES       |
| C4         | 1        | CAP CER 10UF 10V 20% X5R 1206     | 10uF  | 20%       | 1206            | TDK              | C3216X5R1A106M160AB      | YES                  | YES       |
| C6,7       | 2        | CAP CER 200PF 50V 1% NP0 0603     | 200pF | 1%        | 603             | AVX              | AVX 06035A201FAT2A       | YES                  | YES       |
| C8,9       | 2        | CAP CER 22PF 50V 5% NP0 0603      | 22pF  | 5%        | 603             | TDK              | C1608C0G1H220J080AA      | YES                  | YES       |
| C12-15,18  | 5        | CAP CER 0.1UF 25V 10% X7R 0603    | 0.1uF | 10%       | 603             | TDK              | C1608X7R1E104K080AA      | YES                  | YES       |
| D1,2       | 2        | LED ALINGAP RED CLEAR 1206 SMD    |       |           | 1206_LED        | LUMEX            | OPTO SML-LX1206SIC-TR    | YES                  | YES       |
| D4         | 1        | TVS DIODE 24VWM 48VC 2X2DFN       |       |           | 2-XDFN          | ON Semiconductor | SZESD7241N2T5G           | YES                  | YES       |
| D3,5       | 2        | TVS DIODE 5VWM 11.5VC 2X3DFN      |       |           | 2-X3DFN         | ON Semiconductor | ESD7501MUT5G             | YES                  | YES       |
| J1         | 1        | USB TYP C MD MNT DL RW SMT RECEPT |       |           | TYPE-C_USB_CONN | JAE              | DX07B024JJ1R1500         | YES                  | YES       |
| J2         | 1        | CONN RCPT REV MICRO USB TYPE B    |       |           | MICRO USB SM    | FCI              | 10103592-0001LF          | YES                  | YES       |
| R1,2       | 2        | 1% Resistor                       | 200   | 1%        | R_0603          | PANASONIC        | ERJ-3EKF2000V            | YES                  | YES       |
| R3         | 2        | 5% Resistor                       | 10M   | 5%        | R_0603          | PANASONIC        | ERJ-3GEYJ106V            | YES                  | YES       |
| R4         | 1        | 5% Resistor                       | 1M    | 5%        | R_0603          | PANASONIC        | ERJ-3GEYJ105V            | YES                  | YES       |
| R5,6,7     | 1        | 0 Ohm Resistor                    | 0     |           | R_0603          | PANASONIC        | ERJ-3GEY0R00V            | YES                  | YES       |
| R8         | 3        | 1% Resistor                       | 4.7K  | 1%        | R_0603          | PANASONIC        | ERJ-3EKF4701V            | YES                  | YES       |
| R9         | 1        | 1% Resistor                       | 4.99K | 1%        | R_0603          | PANASONIC        | ERJ-3EKF4991V            | YES                  | YES       |
| R10        | 1        | 1% Resistor                       | 15K   | 1%        | R_0603          | PANASONIC        | ERJ-3EKF1502V            | YES                  | YES       |
| R11        | 1        | 1% Resistor                       | 100   | 1%        | R_0603          | PANASONIC        | ERJ-3EKF1000V            | YES                  | YES       |
| R12        | 1        | 1% Resistor                       | 158KΩ | 1%        | R_0603          | PANASONIC        | ERJ-3EKF1583V            | YES                  | YES       |
| R13        | 1        | 1% Resistor                       | 10Ω   | 1%        | R_0603          | PANASONIC        | ERJ-3EKF10R0V            | YES                  | YES       |
| R14        | 1        | 1% Resistor                       | 10K   | 1%        | R_0603          | PANASONIC        | ERJ-3EKF1002V            | YES                  | YES       |
| R15        | 1        | 1% Resistor                       | 91KΩ  | 1%        | R_0603          | PANASONIC        | ERJ-3EKF9102V            | YES                  | YES       |
| SW1        | 1        | SWITCH TACTILE SPST-NO 0.05A 12V  |       |           | SMT SWITCH      | E-SWITCH         | E-SWITCH TL3301AF160QG   | YES                  | YES       |
| TP1-8      | 8        | PC TEST POINT MINIATURE SMT       |       |           | TEST POINT      | Keystone         | 5015                     | YES                  | YES       |
| U1         | 1        | IC USB TYPE C CTRLR PROGR 14-MLP  |       |           | MLP - 14ld      | ON Semiconductor | FUSB302B MPX             | NO                   | YES       |
| U2         | 1        | IC LOAD SWITCH OCP 28V 9WLCSP     |       |           | WLCSP-6LD       | ON Semiconductor | FPF2498                  | NO                   | YES       |
| U3         | 1        | IC MCU 32BIT 128KB FLASH 28SSOP   |       |           | SSOP28          | Microchip        | PIC32MX250F128B-I/SS     | YES                  | YES       |
| U4         | 1        | TRANSLATOR 4BIT DUAL 12-UMLP      |       |           | MLP12           | ON Semiconductor | FXMAR2104                | NO                   | YES       |
| U5         | 1        | IC REG LIN POS ADJ 300MA TSOT23   |       |           | SOT-23-5        | ON Semiconductor | NCP718ASNADJT1G          | YES                  | YES       |
| U6         | 1        | IC REG LDO ADJ 0.1A SOT23-5       |       |           | SOT23-5         | ON Semiconductor | FAN2500SX                | NO                   | YES       |
| X1-X4      | 4        | BUMPER CYLIN 0.312" DIA BLK       |       |           | Rubber Foot     | 3M               | SJ61A1                   | YES                  | YES       |
| Y1         | 1        | CRYSTAL 12MHZ 20PF SMD            |       |           | SMD             | ECS              | ECS-120-20-30B-DU        | YES                  | YES       |