



Bill of Materials for the FUSB302TGEVB 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	TDK C2012X5R1C106K085AC	Yes	Yes
C2	1	CAP CER 4.7UF 25V 10% X5R 0805	4.7uF	10%	805	TDK	TDK C2012X5R1E475K125AB	Yes	Yes
C3,5,16	3	CAP CER 1UF 16V 10% X5R 060	1uF	10%	603	TDK	TDK C1608X5R1C105K080AA	Yes	Yes
C4	1	CAP CER 10UF 10V 20% X5R 1206	10uF	20%	1206	TDK	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	TDK C1608C0G1H220J080AA	Yes	Yes
C12-15,18	5	CAP CER 0.1UF 25V 10% X7R 0603	0.1uF	10%	603	TDK	TDK C1608X7R1E104K080AA	Yes	Yes
D1,2	2	LED ALINGAP RED CLEAR 1206 SMD			1206_LED	LUMEX	LUMEX OPTO SML-LX1206SIC-TR	Yes	Yes
D4	1	TVS UNI-DIR 26V 400W SOD123W			1206	NXP	NXP PTVS26VS1UR	Yes	Yes
D3,5	2	DIODE ZENER 5.1V 200MW 1005			1005	ON Semiconductor	ON Semiconductor MM3Z5V1T1G	Yes	Yes
D3,5 Alternate	2	DIODE ZENER 5.6V 200MW 1005			1005	ON Semiconductor	ON Semiconductor MM3Z5V6T1G	Yes	Yes
J1	1	USB TYP C MD MNT DL RW SMT RECEP			TYPE-C_USB_CONN	JAE	JAE DX07B024J1R1500	Yes	Yes
J2	1	CONN RCPT REV MICRO USB TYPE B			MICRO USB SM	FCI	FCI 10103592-0001LF	Yes	Yes
R1,2	2	1% Resistor	200	1%	R_0603	Panasonic	Panasonic ERJ-3EKF2000V	Yes	Yes
R3	1	5% Resistor	10M	5%	R_0603	Panasonic	Panasonic ERJ-3GEYJ106V	Yes	Yes
R4	1	5% Resistor	1M	5%	R_0603	Panasonic	Panasonic ERJ-3GEYJ105V	Yes	Yes
R5,6,7	3	0 Ohm Resistor	0	0%	R_0603	Panasonic	Panasonic ERJ-3GEY0R00V	Yes	Yes
R8	1	1% Resistor	4.7K	1%	R_0603	Panasonic	Panasonic ERJ-3EKF4701V	Yes	Yes
R9	1	1% Resistor	4.99K	1%	R_0603	Panasonic	Panasonic ERJ-3EKF4991V	Yes	Yes
R10	1	1% Resistor	15K	1%	R_0603	Panasonic	Panasonic ERJ-3EKF1502V	Yes	Yes
R11	1	1% Resistor	100	1%	R_0603	Panasonic	Panasonic ERJ-3EKF1000V	Yes	Yes
R12	1	1% Resistor	100KΩ	1%	R_0603	Panasonic	Panasonic ERJ-3EKF1003V	Yes	Yes
R13	1	1% Resistor	10Ω	1%	R_0603	Panasonic	Panasonic ERJ-3EKF10R0V	Yes	Yes
R14	1	1% Resistor	10K	1%	R_0603	Panasonic	Panasonic ERJ-3EKF1002V	Yes	Yes
SW1	1	SWITCH TACTILE SPST-NO 0.05A 12V			SMT SWITCH		E-SWITCH TL3301AF160QG	Yes	Yes
TP1-8	8	PC TEST POINT MINIATURE SMT			TEST POINT	Keystone	Keystone 5015	Yes	Yes
U1	1	IC USB TYPE C CTRL PROGR 14-MLP			MLP - 14ld	ON Semiconductor	ON Semiconductor FUSB302TMPX	NO	Yes
U2	1	IC LOAD SWITCH OCP 28V 9WLCSP			WLCSP-6LD	ON Semiconductor	ON Semiconductor FPF2498	NO	Yes
U3	1	IC MCU 32BIT 128KB FLASH 28SSOP			SSOP28	Microchip	Microchip PIC32MX250F128B-I/SS	Yes	Yes
U4	1	TRANSLATOR 4BIT DUAL 12-UMLP			MLP12	ON Semiconductor	ON Semiconductor FXMAR2104	NO	Yes
U5	1	IC REG LDO 3.3V 0.5A SOT223-5			SOT-223-5	Microchip	Microchip MCP1825T-3302E/DC	Yes	Yes
U6	1	IC REG LDO ADJ 0.1A SOT23-5			SOT23-5	ON Semiconductor	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