



## Bill of Materials for the FUSB301GEVB Evaluation Board

Designator (Main Board)	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1,C2,C3,C4,C5	5	CAP CER 0.1UF 50V 10% X7R 0402	0.1uF	10%	402	TDK Corporation	CGA2B3X7R1H104K050BB	Yes	Yes
C7,C9	2	CAP CER 1UF 50V 10% X7R 0603	1uF	10%	603	Taiyo Yuden	UMK107AB7105KA-T	Yes	Yes
C10,C11	2	CAP CER 22PF 50V 10% NP0 0603	22pF	10%	603	Kemet	C0603C220K5GACTU	Yes	Yes
C13	1	CAP CER 2.2UF 10V 10% X7R 0603	2.2uF	10%	603	Taiyo Yuden	LMK107B7225KA-T	Yes	Yes
C14	1	CAP CER 4.7UF 10V 10% X7S 0603	4.7uF	10%	603	TDK Corporation	C1608X7S1A475K080AC	Yes	Yes
C12	1	CAP CER 10UF 10V 20% X7T 0603	10uF	20%	603	Murata Electronics North America	GRM188D71A106MA73D	Yes	Yes
C6,C8	2	CAP CER 200PF 50V 5% NP0 0402	200pF	5%	402	Murata Electronics North America	GRM1555C1H201JA01D	Yes	Yes
U4	1	IC REG LDO ADJ 0.1A SOT23-5			FAN2500	onsemi	FAN2500SX	Yes	Yes
U3	1	IC LOAD SWITCH BIDIR 6V 12CSP				onsemi	PPF2411BUCX_F130	Yes	Yes
U2	1	MLP40P160X120X40-10N	FUSB301			onsemi	FUSB301TMX	No	Yes
U1	1	IC MCU 32BIT 128KB FLASH 28SSOP			SSOP	Microchip Technology	PIC32MX250F128B-I/SS	No	Yes
J1,J2,J5	3	HEADER2pin100 mil pitch, 40 mi/60 mil pad				3M	961102-6404-AR	Yes	Yes
D2,D3,D4	3	TVS DIODE 0402				Murata Electronics North America	LXES15AAA1-100	Yes	Yes
D1,D5,D6	3	LED 2X1.2MM 525NM GN WTR CLR SMD			805	Kingbright	APT2012ZGC	Yes	Yes
R1	1	RES SMD 100 OHM 1% 1/8W 0603	100	1%	603	Stackpole Electronics Inc	RNCP0603FTD100R	Yes	Yes
R2	1	RES SMD 4.7K OHM 1% 1/8W 0603	4.7K	1%	603	Vishay Beyschlag	MCT06030C4701FP500	Yes	Yes
R3,R14,R19	3	RES SMD 330 OHM 1% 1/8W 0603	330	1%	603	Vishay Beyschlag	MCT06030C3300FP500	Yes	Yes
R4,R5,R8,R11,R16,R17,R20	7	RES SMD 10K OHM 1% 1/8W 0603	10K	1%	603	Vishay Beyschlag	MCT06030C1002FP500	Yes	Yes
R21	1	RES SMD 15K OHM 0.1% 0.15W 0603	15K	0.1%	603	Vishay Thin Film	PATT0603E1502BGT1	Yes	Yes
R6,R15,R18	3	RES SMD 100K OHM 1% 1/8W 0603	100K	1%	603	Vishay Beyschlag	MCT06030C1003FP500	Yes	Yes
R12,R13	2	RES SMD 10K OHM 1% 1/8W 0805	10K	1%	805	TE Connectivity	1623097-1	Yes	Yes
R7,R9	3	RES SMD 0.0OHM JUMPER 1/10W 0603	0 OHM		603	Yageo	RC0603JR-070RL	Yes	Yes
R10	1	RES SMD 10 OHM 1% 1/8W 0603	10	1%	603	Stackpole Electronics Inc	RNCP0603FTD10R0	Yes	Yes
SW1	1	SWITCH TACTILE SPST-NO 0.05A 12V	BootLoader			E-Switch	TL3301AF160QG	Yes	Yes
TP1-TP15,	15	PC TEST POINT MINIATURE SMT			5015	Keystone Electronics	5015	Yes	Yes
Y1	1	CRYSTAL 12MHZ 20PF SMD				ECS Inc	ECS-120-20-30B-DU	Yes	Yes
J4	1	CONN RCPT REV MICRO USB TYPE B				FCI	10103592-0001LF	Yes	Yes
J6	1	USB TYP C MD MNT DL RW SMT RECEP			DX07B024JJ1R1500	JAE Electronics	DX07B024JJ1R1500	No	Yes
J3	1	HEADER_6pins100 mil pitch, 40 mi/60 mil pad	PROG					Yes	Yes