



Bill of Materials for the STR-FUSB3307MPX-PPS-GEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1 C2 C3 C4 C5 C8 C11 C15 C26	9	Generic 0603-1210 SMD Capacitor	10uF	50V	1210	TDK	CGA6P3X7S1H106K250AE	Yes	Yes
C6 C31 C38 C39	4	CAP CER 1UF 10V X7S 0402	1uF	10V	0402	Murata	GCM155C71A105KE38	Yes	Yes
C7 C19	2	CAP CER 1UF 25V X7R 0603	1uF	25V	0603	Murata	GCM188R71E105KA64	Yes	Yes
C9 C10 C12	3	Generic 0805 SMD Capacitor	4.7uF	10V	0805	Murata	GCM21BC71A475KA73L	Yes	Yes
C13 C14	2	Generic 0603 SMD Capacitor	0.1uF	50V	0603	Murata	GCM188R71H104KA57D	Yes	Yes
C16	1	Y type, 12.5mm, TBD, Voltage, Tolerance	330uF	35V	TH_8mm	Illinois	337AVG035MGBJ	Yes	Yes
C17	1	Y type, 12.5mm, TBD, Voltage, Tolerance	100uF	35V	TH_8mm	Nichicon	RL81V101MDN1KX	Yes	Yes
C20 C21	2	MLCC, 402, TBD, Voltage, Tolerance	10nF	50V	0402	Murata	GCM155R71H103KA55D	Yes	Yes
C22	1	Generic 0603 SMD Capacitor	1uF	16V	0603	Murata	GCM188R71C105KA64J	Yes	Yes
C23 C25 C32	3	CAP CER 1000PF 50V X7R 0402	1nF	50V	402	Murata	GCM155R71H102KA37D	Yes	Yes
C24 C27	2	MLCC, 402, TBD, Voltage, Tolerance	390pF	50V	0402	Murata	GRM1555C1H391JA01D	Yes	Yes
C28	0	DNI	DNI	DNI	DNI			Yes	Yes
C29	0	DNI	DNI	DNI	DNI			Yes	Yes
C30	1	Generic 0402 SMD Capacitor	0.47uF	35V	0402	Murata	GRT155R6YA474KE01D	Yes	Yes
C33	1	MLCC, 402, TBD, Voltage, Tolerance	47nF	50V	0402	Murata	GRM155R71H473KE14D	Yes	Yes
C34	1	MLCC, 402, TBD, Voltage, Tolerance	10pF	50V	0402	Murata	GRM1555C1H100GA01D	Yes	Yes
C35	1	MLCC, 603, TBD, Voltage, Tolerance	1nF	50V	0402	Murata	GCM155R71H102KA37D	Yes	Yes
C36 C37	2	CAP CER 1UF 16V X5R 0402	1uF	16V	0402	Murata	GRM155C81C105KE11D	Yes	Yes
C40	0	DNI	DNI	DNI	DNI			Yes	Yes
D1 D2	2	SOD-323	NSVR0240V2	V	SOD-523	ON Semiconductor	NSVR0240V2T1G	No	Yes
D3	1	Generic SOD-323 Zener Diode	SZMM3Z18VT1G	18V	SOD-323	ON Semiconductor	SZMM3Z18VT1G	No	Yes
D4	1	DIODE ZENER 3.3V 250MW SOD923	SZN9F3V3	3.3V	SOD-923	ON Semiconductor	NZ9F3V3T5G	No	Yes
D5	1	Generic SMB Bi-Directional TVS Diode	SZ1SMB30CAT3G	30V	SMB	Littelfuse	SZ1SMB30CAT3G	Yes	Yes
D6 D7 D9	3	ESD Protection Diode Ultra Low Capacitance	SZESD7241	25V	X2DFN2	ON Semiconductor	SZESD7241N2T5G	No	Yes
FB1	1	Ferrite Bead 50 Ohm 12A	50@100M		1206	Murata	BLM31SN500SZ1L	Yes	Yes
J1	1		632 723 300 011			Würth Elektronik	632723300011	Yes	Yes
J2 J4 J5	3	Standard 1x2pin 100mil Pitch Header	613 002 111 21		1x2pin 100mil	Würth Elektronik	613 002 111 21	Yes	Yes
J3	1	2 Pin Screw Serie 2167 5mm Horizontal Entry Modular	691216710002		2-Pin Screw	Würth Elektronik	1716020000	Yes	Yes
J6	1	Spyglass Assisted (SGA) 16pin Header Platform Side	SGAP0		SGAP0	Würth Elektronik	613016243121	Yes	Yes
L1	1		4.2 uH			Würth Elektronik	744 325 420	Yes	Yes
L2	1	Generic 7x7mm Inductor	160nH		7x7mm	Coilcraft	XAL5030-161MEC	Yes	Yes
NT1 NT2 NT3 NT4	4	Net Tie 5mil	<Value>	<Voltage>	5mil			Yes	Yes

Q1 Q2 Q3 Q4	4		NVTFS4C10N	30V	u8-FL	ON Semiconductor	NVTFS4C10NWFTAG	No	Yes	
Q5	1		NVTFS002N04CL	40V	u8-FL	ON Semiconductor	NVTFS002N04CLTAG	No	Yes	
Q6	1	Generic SO8-FL DFN-5 P-Channel Power MOSFET	NVMFS5A140PLZ	-40V	SO8-FL	ON Semiconductor	NVMFS5A140PLZWFT1G	No	Yes	
Q7 Q8	2	Automotive Small Signal MOSFET 60V 340mA 2.5 Ohm Single N-Channel SOT-323	2V7002W	60V	SOT-323	ON Semiconductor	2V7002WT1G	No	Yes	
Q9 Q10 Q11	3	Automotive Small Signal MOSFET 60V 115mA 7.5 Ohm Single N-Channel SOT-23	2V7002L	60V	SOT-23	ON Semiconductor	2V7002LT1G	No	Yes	
R1 R24	2	RES1206, 1%, 1/4W, TBD	0.005			2512	Panasonic	ERJ-M1WSF5M0U	Yes	Yes
R2	1	RES1206, 1%, 1/4W, TBD	0.004			2512	Panasonic	ERJ-M1WSF4M0U	Yes	Yes
R3	1	Generic 0402 SMD Resistor	20k	<Voltage>		0402	Yageo	RC0402FR-0720KL	Yes	Yes
R4 R5	2	RES 402, 1%, 1/16W, TBD	0			0603	Yageo	RC0402JR-070RL	Yes	Yes
R6	1	Generic 0603 SMD Resistor	10k			0603	Yageo	SR0603FR-7T10KL	Yes	Yes
R7 R8	2	RES 402, 1%, 1/16W, TBD	1.0			0402	Yageo	RC0402FR-071RL	Yes	Yes
R9 R10	2	RES 402, 1%, 1/16W, TBD	4.02			0402	Vishay	CRCW04024R02FKEDC	Yes	Yes
R11 R12	2	RES 402, 1%, 1/16W, TBD	0			0402	Yageo	RC0402JR-070RL	Yes	Yes
R13 R15 R17 R18	4	RES 402, 1%, 1/16W, TBD	10			0402	Yageo	RC0402FR-0710RL	Yes	Yes
R16	1	Generic 1206 SMD Resistor	1k			1206	Vishay	CRCW12061K00JNEA	Yes	Yes
R20	1	Generic 0402 SMD Resistor	6.8k	<Voltage>		402	Yageo	RC0402FR-076K8L	Yes	Yes
R21	1	Generic 0402 SMD Resistor	301k	<Voltage>		402	KOA Speer	RK73H1ETTP3013F	Yes	Yes
R22 R23	2	Generic 0402 SMD Resistor	24.3k	<Voltage>		402	Yageo	RC0402FR-0724K3L	Yes	Yes
R25	1	RES SMD 100 OHM 1% 1/16W 0402	DNP			0402			Yes	Yes
R26 R27 R28 R32	4	Generic 0402 SMD Resistor	10k	<Voltage>		402	Yageo	RC0402FR-0710KL	Yes	Yes
R29 R30	2	RES SMD 0 OHM 1% 1/16W 0402	0			0402	Yageo	RC0402JR-070RL	Yes	Yes
R31	0	DNI	DNI			DNI			Yes	Yes
R33	1	RES SMD 1K OHM 1% 1/16W 0402	1K			0402	Yageo	RC0402FR-071KL	Yes	Yes
R35	0	DNI	DNI			DNI			Yes	Yes
R36	1	RES SMD 100K OHM 1% 1/16W 0402	100K			0402	Yageo	RC0402FR-07100KL	Yes	Yes
R37	1	RES 402, 1%, 1/16W, TBD	10k			0402	Yageo	RC0402FR-0710KL	Yes	Yes
R38	1	Generic 0402 SMD Resistor	13.3k	<Voltage>		0402	Yageo	RC0402FR-0713K3L	Yes	Yes
R39	1	Generic 0402 SMD Resistor	120k	<Voltage>		0402	Yageo	RC0402FR-07120KL	Yes	Yes
R40	1	RES SMD 34K OHM 1% 1/16W 0402	34K			0402	Yageo	RC0402FR-0734KL	Yes	Yes
R41	1	RES SMD 100K OHM 1% 1/16W 0402	100K			0402	Yageo	RC0402FR-07100KL	Yes	Yes
R42 R48 R54 R57	4	RES SMD 10K OHM 1% 1/16W 0402	10K			0402	Yageo	RC0402FR-0710KL	Yes	Yes
R43 R44	2	RES 402, 1%, 1/16W, TBD	1k			0402	Yageo	RC0402FR-071KL	Yes	Yes
R45	1	RES SMD 10K OHM 1% 1/16W 0402	10K			0402	Yageo	RC0402FR-0710KL	Yes	Yes
R46	1	RES SMD 15.4K OHM 0.1% 1/16W 0402	15.4K			0402	Panasonic	ERA-2AEB1542X	Yes	Yes
R47	1	RES SMD 1K OHM 0.1% 1/16W 0402	1K			0402	Panasonic	ERA-2AEB102X	Yes	Yes
R49	1	Generic 0402 SMD Resistor	10	<Voltage>		0402	Yageo	RC0402FR-0710RL	Yes	Yes
R50 R51	2	Generic 1210 SMD Resistor	82.5			1210	Panasonic	ERJ-14NF82R5U	Yes	Yes
R52 R53	2	RES SMD 10K OHM 1% 1/16W 0402	DNP			0402			Yes	Yes
R55	1	RES SMD 24.9K OHM 0.1% 1/16W 0402	24.9K			0402	Panasonic	ERA-2AEB2492X	Yes	Yes
R56	1	RES 249K OHM 0.1% 1/10W 0402	249k			0402	TE Connectivity	RP73PF1E249KBTB	Yes	Yes
RT1	1	Generic 0402 NTC Thermistor	100k	<Voltage>		0402	Murata	NCP15WF104F03RC	Yes	Yes
TP1 TP2 TP9 TP15 TP17	5	63mil White Loop	5007			63mil	Keystone Electronics	5006	Yes	Yes
TP3 TP4 TP5 TP6 TP7 TP8 TP10 TP11 TP12 TP13 TP14 TP16 TP18 TP19	14	Passive Probe Tip Tektronix P5050 (Tan) Tip	DNI			0.75mm			Yes	Yes