



Bill of Materials for the STR-ASSISTED-RSL10-GEVB_without_Header Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2, C4, C5, C7, C8, C9, C11, C14	9	CAP CER 1UF 16V X5R 0402	1uF	±10%	0402	Murata	GRM155R61C105KA12	Yes	Yes
C3, C10, C13	3	CAP CER 0.1UF 50V X7R 0402	0.1uF	±15.0%	0402	Murata	GRM155R71H104KE14	Yes	Yes
C6, C12	2	CAP CER 4.7UF 6.3V X5R 0402	4.7uF	±20%	0402	Murata	GRM153R60J475ME15D	Yes	Yes
C15	1	CAP CER 10UF 25V X5R 0603	10uF	±15.0%	0603	Murata	GRM188R61E106MA73	Yes	Yes
D1	1	Blue LED	150060BS75000	-	0603	Würth Elektronik	150060BS75000	Yes	Yes
D2	1	Yellow LED	150060YS75000	-	0603	Würth Elektronik	150060YS75000	Yes	Yes
D3	1	Red LED	150060RS75000	-	0603	Würth Elektronik	150060RS75000	Yes	Yes
D4	1	Green LED	150060GS75000	-	0603	Würth Elektronik	150060GS75000	Yes	Yes
D5, D6	2	Schottky Barrier Diode, 2.0 A, 20 V	NSR20F20NX	-	DSN2 0603	ON Semiconductor	NSR20F20NX	No	Yes
D7	1	ESD Protection Diodes	ESD7205	-	SOT-723	ON Semiconductor	ESD7205D15G	No	Yes
FB1	1	Ferrite bead 220 Ohm 0805 1LN	220@100M	-	0805	Würth Elektronik	782853221	Yes	Yes
J1	0	DNI	DNI	-	DNI	DNI	DNI	Yes	Yes
J2	1	Standard Arm Cortex Debug Connector	FTSH-105-01-F-DV-K	-	2.54mm	Samtec	FTSH-105-01-F-DV-K	Yes	Yes
J3	1	Mini USB1/2 Type-B Connector	65100516121	-	Mini USB1/2 B	Würth Elektronik	65100516121	Yes	Yes
JP1	0	DNI	DNI	-	DNI	DNI	DNI	Yes	Yes
Q1, Q2, Q3, Q4	4	Small Signal MOSFET 60V 340mA 2.5 Ohm Single N-Channel SOT-323	2N7002W	-	SOT-323	ON Semiconductor	2N7002WT1G	No	Yes
R1	0	DNI	DNI	-	DNI	DNI	DNI	Yes	Yes
R2, R4	2	RES SMD 2.7K OHM 1% 1/16W 0402	2.74K	±1%	0402	Vishay Dale	CRCW04022K74FKED	Yes	Yes
R3, R7, R8, R10, R15, R17	6	RES SMD 10K OHM 1% 1/16W 0402	10K	±1%	0402	Vishay Dale	CRCW040210K0FKED	Yes	Yes
R5, R18, R21	3	RES SMD 100 OHM 1% 1/16W 0402	100	±1%	0402	Vishay Dale	CRCW0402100RFKED	Yes	Yes
R6	1	RES SMD 100K OHM 1% 1/16W 0402	100K	±1%	0402	Vishay Dale	CRCW0402100KFKED	Yes	Yes
R9	1	RES SMD 280 OHM 1% 1/16W 0402	280	±1%	0402	Vishay Dale	CRCW0402280RFKED	Yes	Yes
R11	1	RES SMD 4.99K OHM 1% 1/16W 0402	4.99K	±1%	0402	Vishay Dale	CRCW04024K99FKED	Yes	Yes
R12	1	RES SMD 681 OHM 1% 1/16W 0402	681	±1%	0402	Vishay Dale	CRCW0402681RFKED	Yes	Yes
R13	1	RES SMD 9.31K OHM 1% 1/16W 0402	9.31K	±1%	0402	Vishay Dale	CRCW04029K31FKED	Yes	Yes
R14, R20	2	RES SMD 0 OHM JUMPER 1/16W 0402	0	-	0402	Vishay Dale	CRCW0402000020ED	Yes	Yes
R16	1	RES SMD 100 OHM 1% 1/10W 0603	100	±1%	0603	Vishay Dale	CRCW0603100RFKEA	Yes	Yes
R19	1	RES SMD 2.32K OHM 1% 1/16W 0402	2.32K	±1%	0402	Vishay Dale	CRCW04022K32FKED	Yes	Yes
SW1, SW2	2	SWITCH TACTILE-SPST-NO 0.05A 12V	434153017835	-	MOM1 SMD	Würth Elektronik	434153017835	Yes	Yes
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11	0	DNI	DNI	-	DNI			Yes	Yes
U1, U2	2	Full-Function Load Switch with Adjustable Current Limit	FPF2193	-	WLCSP	ON Semiconductor	FPF2193	No	Yes
U3	1	Bluetooth 5 System-in-Package SIP	RSL10SIP	-	SIP51	ON Semiconductor	NCH-RSL10-101S51-ACG	No	Yes

