



Bill of Materials for the RSL10-002GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
AD1	1	Arduino Stackable Header 6-pin			n/a	Samtec	SSQ-106-03-G-S	-	YES
C2, C3, C4, C5, C6	5	Capacitor, NP0, ±2%	12pF		0402	Murata	GRM1555C1E120GA01D	-	YES
C7	1	CAP CER 2.2UF 10V X5R 0402	2.2uF		0402	Murata	GRM155R61A225KE9D	-	YES
C9, C16, C40	3	CAP CER 4.7UF 10V X5R 0603, CAP CER 4.7UF 25V X5R 0603	4.7uF		0603	Murata	GRM188R61A475KE15D	-	YES
C11	1	CAP CER 100PF 50V COG/NP0 0402	100pF		0402	Murata	GRM1555C1H101JA01J	-	YES
C12, C13	2	CAP CER 1.5PF 50V NP0 0402	1.5pF		0402	Murata	GCM1555C1H1R5CA16D	-	YES
C14	1	CAP CER 12PF 25V COG/NP0 0402	12pF		0402	Murata	GRM1555C1E120GA01D	-	YES
C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C41, C42, C43, C44, C45, C46	18	CAP CER 0.1UF 25V X5R 0402	100nF		0402	Murata	GRM155R61E100KA97D	-	YES
C22	1	CAP CER 10PF 25V COG/NP0 0402	10pF		0402	Murata	GRM1555C1E100JA01D	-	YES
C24, C34, C35	3	CAP CER 10UF 10V X5R 0603	10uF		0603	Murata	GRM188R61A106KE69D	-	YES
C26, C28	2	CAP CER 18PF 25V COG/NP0 0402	18pF		0402	Murata	GRM1555C1E180JA01D	-	YES
C1, C8, C17, C41, C42, C45, C46	7	CAP CER 1UF 10V X5R 0402	1uF		0402	Murata	GRM155R61A105KE15D	-	YES
C44, C47	2	CAP CER 10000PF 50V X7R 0402	10nF		0402	Murata	GRM155R71H103KA88D	-	YES
D1	1	Ultra low capacitance double rail-to-rail ESD protection diode	PRTR5V0U2X		SOT-143B	NXP	PRTR5V0U2X,215	-	YES
I0H1	1	Arduino Stackable Header 10-pin				Samtec	SSQ-110-03-G-S	-	YES
I0L1, POWER1	2	Arduino Stackable Header - 8 Pin				Samtec	SSQ-108-03-G-S	-	YES
J1	1	Coaxial Connector with Switch	MM8130-2600		COAXIAL-SWF	Murata	MM8130-2600RA2	-	YES
J2	1	Micro USB-B-SMT	MicroUSB-B		FCI 10118193-0001LF	FCI	10118193-0001LF	-	YES
J4	1	WR-PHD 2.54 mm Angled Dual Socket Header, 12p				Würth Elektronik	613012243121	-	YES
J5	1	HOLDER BATTERY 12MM COIN	Value			Keystone	2996	-	YES
L1	1	FIXED IND 3NH 800MA 170 MOHM SMD	3nH		0402	Murata	LOG15HS3N0S02D	-	YES
L2	1	FIXED IND 1.8NH 950MA 100 MOHM	1.8nH		0402	Murata	LOG15HS1N8S02D	-	YES
L3	1	FIXED IND 15NH 320MA 460 MOHM	15nH		0402	Taiyo Yuden	HK100515NJ-T	-	YES
L4	1	FIXED IND 2.2UH 800MA 200 MOHM	2.2uH		0805	Taiyo Yuden	CKP2012N2R2M-T	-	YES
LD1	1	Ultra bright AlInGaP Bi-Color LED	LTST-C195KGRJKT		LED_DUAL_0606	Lite-On Inc	LTST-C195KGRJKT	-	YES
LED 1	1	LED SMARTLED GREEN 570NM 0603	L0603G		0603	Panasonic	LNJ337W83RA	-	YES
P1, P4	2	Header 2x3 SMT				Molex	15-91-2060	-	YES
P2	1	SAMTEC - CONN HEADER 10POS DUAL .05" SMD KEYING SHROUD	FTSH-105		FTSH-105	Samtec	FTSH-105-01-F-DV-K	-	YES
P3, P5	2	HEADER, 2POS, 1ROW; Series: 961; Pitch Spacing: 2.54mm; RA				3M	961102-5604-AR	-	YES
P6	1	2x4 Pin Header				Molex	15-91-2080	-	YES

P7, P8, P9, P10	4	HEADER, 3POS, 1ROW; Series: 961; Pitch Spacing: 2.54mm;				3M	961103-6404-AR	-	YES
Q1	1	NMOS Transistor			SOT65P210X105-3N	Rohm	RUIJ002YNTCL	-	YES
R1, R2, R4, R9, R30, R31	6	RES SMD 68 OHM 1% 1/10W 0402	68		0402	Panasonic	ERJ-2RKF68R0X	-	YES
R3, R5, R6, R26, R27, R32, R44, R46, R48, R49, R50.	11	Resistor, ±1%, 0.063W	68, 68, 68, 0, 0, 0, 10k, 10k, 10k, 0, 0, 0, 0, 0, 10k		0402	Panasonic	ERJ-2RKF68R0X, ERJ-2RKF68R0X, ERJ-2RKF68R0X, ERJ-2GE0R00X, ERJ-2GE0R00X, ERJ-2GE0R00X, ERJ-2GEJ103X, ERJ-2GEJ103X, ERJ-2GEJ103X	-	YES
R7, R36, R40, R41, R42, R43, R51	7	RES SMD 10K OHM 5% 1/10W 0402	10k		0402	Panasonic	ERJ-2GEJ103X	-	YES
R10, R11	2	RES SMD 39 OHM 1% 1/10W 0402	39		0402	Panasonic	ERJ-2RKF39R0X	-	YES
R12, R13, R14, R20	4	RES SMD 4.7K OHM 1% 1/10W 0402	4k7		0402	Panasonic	ERJ-2RKF4701X	-	YES
R15, R16	2	RES SMD 220 OHM 1% 1/10W 0402	220		0402	Panasonic	ERJ-2RKF2200X	-	YES
R17, R18, R19, R29	4	RES SMD 6.8K OHM 1% 1/10W 0402	6k8		0402	Panasonic	ERJ-2RKF6801X	-	YES
R21, R45, R47, R52, R53	5	RES SMD 0.0OHM JUMPER 1/10W 0402	0		0402	Panasonic	ERJ-2GE0R00X	-	YES
R22, R23, R24, R25, R28	5	RES SMD 150 OHM 1% 1/10W 0402	150		0402	Panasonic	ERJ-2RKF1500X	-	YES
R54	1	RES SMD 100K OHM 1% 1/10W 0402	100k		0402	Panasonic	ERJ-2RKF1003X	-	YES
SW1, SW2	2	ALPS - SKHJALE010 - Tactile Switch, SPNO, SMD, 6.5x6.2x2.5mm	PB SW		ALPS_SKHJxx010_WO_GND	Alps	SKHJALE010	-	YES
U1	1	RSL10 QFN			QFN-48	ON Semiconductor	NCH-RSL10-101G48-ABG	-	YES
U2	1	IC MCU 32bit 128kB flash 100LQFP		ATSAM3U2CA-AU	LQFP-100	Atmel	ATSAM3U2CA-AU	-	YES
U3	1	IC REG LIN 3.3V 600mA 5TSOP			TSOP-5IPC	ON Semiconductor	NCP114ASN330T1G	-	YES
U4	1	TRANSLATOR LEVEL 4BIT 14-TSSOP			TSOP65P640X120-14N	ON Semiconductor	NLSX5014DTR2G	-	YES
U5	1	Remote 16-bit expander	PCA9655		QFN50P400X400	ON Semiconductor	PCA9655EMTTXG	-	YES
X1	1	ECS 48MHz Crystal			XTAL 4 pads	ECS	ECS-480-8-47-J1N-TR	-	YES
X2	1	EPSON TOYOCOM - FC-135 32.768KHZ ±20PPM			XTAL 3215	Epson Toyocom	FC-135 32.768KHZ ±20PPM	-	YES
X3	1	XTAL SMD 3225 12MHz, 18pF, ±30ppm			12MHz	TXC Corporation	7M-12.000MAJ-T	-	YES
See Installation	9	CONN JUMPER SHORTING GOLD FLASH	n/a		CONN JUMPER (2.54mm) Gold	SULLINS	SPC02SYAN	-	YES
See Installation	4	MACHINE SCREW PAN PHILLIPS 4-40	n/a		n/a	B&F Fastener Supply	NY PMS 440 0025 PH	-	YES
See Installation	4	HEX STANDOFF 4-40 NYLON 3/8"	n/a		n/a	Keystone	1902B	-	YES