



Bill of Materials for the RSL10 SIP 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	YES
C40	1	CAP CER 4.7UF 10V X5R 0603, CAP	4.7uF		0603	Murata	GRM188R61A475KE15D	YES	YES
C43, C9	2	CAP CER 4.7UF 10V X5R 0603, CAP	4.7uF		0603	Murata	GRM188R61A475KE15D	YES	YES
C10, C1	2	CAP CER 0.1UF 25V X5R 0402	100nF		402	Murata	GRM155R61E104KA87D	YES	YES
C16, C19, C20, C21, C22, C23	16	CAP CER 0.1UF 25V X5R 0402	100nF		0402	Murata	GRM155R61E104KA87D	YES	YES
C22	1	CAP CER 10PF 25V COG/NPO 0402	10pF		0402	Murata	GRM1555C1E100JA01D	YES	YES
C24, C34, C35	3	CAP CER 10UF 10V X5R 0603	10uF		0603	Murata	GRM188R61A106KE69D	YES	YES
C26, C28	2	CAP CER 18PF 25V COG/NPO 0402	18pF		0402	Murata	GRM1555C1E180JA01D	YES	YES
C41, C42, C43, C44	4	CAP CER 1UF 10V X5R 0402	1uF		0402	Murata	GRM155R61A105KE15D	YES	YES
C44, C47	2	CAP CER 10000PF 50V X7R 0402	10nF		0402	Murata	GRM155R71H103KA88D	YES	YES
D1	1	Ultra low capacitance double rail-to-rail			PRT1R5V0U2X	NXP	PRT1R5V0U2X,215	YES	YES
IOH1	1	Arduino Stackable Header 10-pin			SOT-143B	Samtec	SSQ-110-03-G-S	YES	YES
IOL1, POWER1	2	Arduino Stackable Header - 8 Pin				Samtec	SSQ-108-03-G-S	YES	YES
J2	1	MicroUSB-B-SMT	MicroUSB-B		FCI 10118193-00	FCI	10118193-0001LF	YES	YES
J5	1	HOLDER BATTERY 12MM COIN	Value			Keystone	2996	YES	YES
LD1	1	Ultra bright AlInGaP Bi-Color LED	LTST-C195KGJRK		LED_DUAL_0606	Lite-On Inc	LTST-C195KGJRK	YES	YES
LED 1	1	LED SMARTLED GREEN 570NM 0603	L0603G		0603	Panasonic	LNJ337W83RA	YES	YES
P1, P4	2	Header 2x3 SMT				Molex	15-91-2060	YES	YES
P2	1	SAMTEC - CONN HEADER 10POS DU	FTSH-105		FTSH-105	Samtec	FTSH-105-01-F-DV-K	YES	YES
P3, P5	2	HEADER, 2POS, 1ROW, Series: 961				3M	961102-5604-AR	YES	YES
P6	1	2x4 Pin Header				Molex	15-91-2080	YES	YES
P7, P8, P9, P10	4	HEADER, 3POS, 1ROW, Series: 961				3M	961103-6404-AR	YES	YES
Q1	1	NMOS Transistor			SOT65P210X105	Rohm	RU1J002YNTCL	YES	YES
R1, R2, R4, R9, R6	6	RES SMD 68 OHM 1% 1/10W 0402	68		0402	Panasonic	ERJ-2RKF68R0X	YES	YES
R3, R5, R6, R26, R27, R32	6	Resistor, ±1%, 0.063W			0402			YES	YES
R7, R36, R40,	3	RES SMD 10K OHM 5% 1/10W 0402	10k		0402	Panasonic	ERJ-2GEJ103X	YES	YES
R10, R11	2	RES SMD 39 OHM 1% 1/10W 0402	39		0402	Panasonic	ERJ-2RKF39R0X	YES	YES
R12, R13, R14, R4	4	RES SMD 4.7K OHM 1% 1/10W 0402	4k7		0402	Panasonic	ERJ-2RKF4701X	YES	YES
R15, R16	2	RES SMD 220 OHM 1% 1/10W 0402	220		0402	Panasonic	ERJ-2RKF2200X	YES	YES
R17, R18, R19, R4	4	RES SMD 6.8K OHM 1% 1/10W 0402	6k8		0402	Panasonic	ERJ-2RKF6801X	YES	YES
R21, R34, R35	3	RES SMD 0.0OHM JUMPER 1/10W 040			0402	Panasonic	ERJ-2GE0R00X	YES	YES
R22, R23, R24, R5	5	RES SMD 150 OHM 1% 1/10W 0402	150		0402	Panasonic	ERJ-2RKF1500X	YES	YES
R54	1	RES SMD 100K OHM 1% 1/10W 0402	100k		0402	Panasonic	ERJ-2RKF1003X	YES	YES
SW1, SW2	2	ALPS - SKHUALE010 - Tactile Switch	PB SW		ALPS SKHUX000	Alps	SKHUALE010	YES	YES
U1	1	RSL10 SIP			SIP Module	ON Semiconductor	n/a	NO	YES
U2	1	IC MCU 32bit 128KB flash 100LQFP	ATSAM3U2CA-AU		LQFP-100	Atmel	ATSAM3U2CA-AU	YES	YES
U3	1	IC REG LIN 3.3V 600MA SOTOP			TSOP-5IPIC	ON Semiconductor	NCPI14ASN330T1G	NO	YES
U4	1	TRANSLATOR LEVEL 4BIT 14-TSSOP			TSOP5P640X12	ON Semiconductor	NLSX5014DTR2G	NO	YES
X3	1	XTAL SMD 3225, 12MHz, 18pf, ±30ppm	12MHz		BT-XTAL_3225	TXC Corporation	7M-12.000MAA-I-T	YES	YES
See Installation	9	CONN JUMPER SHORTING GOLD FL	n/a		CONN JUMPER	SULLINS	SPC025YAN	YES	YES
See Installation	4	MACHINE SCREW PAN PHILLIPS 4-4	n/a		n/a	B&F Fastener Supply	NY PMS 440 0025 PH	YES	YES
See Installation	4	HEX STANDOFF 4-40 NYLON 3/8"	n/a		n/a	Keystone	1902B	YES	YES
