



Bill of Materials for the RSL10-SOLARSENS-GEVK Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1, C2, C4, C5	4	MLCC >= 10V	1uF		0603	Würth Electronic	885012206052	YES	YES
C3	1	100uF, 6.3V	100uF		5x5.5mm	Würth Electronic	865090142005	YES	YES
C6, C7, C8, C9, C10	5	MLCC >= 6.3V	100nF		0603	Würth Electronic	885012206020	YES	YES
D1	1	Schottky Diode			SOD-323	ON Semiconductor	BAT54HT1G	NO	YES
D2	1	6.2V Zener Diode			SOD-323	ON Semiconductor	MM3Z6V2ST1G	NO	YES
D3	1	Dual series diode	BAT54C		SOT23 (TO-236)	ON Semiconductor	BAT54CLT1G	NO	YES
D4	1	WL-SMCW SMD chip LED top view mono-color waterclear, 0603, Green			LED_0603	Würth Electronic	150060VS75000	YES	YES
J4	1	ZIF connector 4 Pin				Würth Electronic	68610414422	YES	YES
J7	1	JTAG connector	JTAG		JTAG_10Pin_header	Samtec	FTSH-105-01-F-DV-K	YES	YES
J3, J8, J9	3	100mil spaced pin header	"VIN", "VBAT" and "PROG"			Würth Electronic	61300211121	YES	YES
R1, R5, R18	3	SMD Resistor	10k		0603	generic	-	YES	YES
R3	1	SMD Resistor	1M		0603	generic	-	YES	YES
R4, R7, R8	3	SMD Resistor	68R		0603	generic	-	YES	YES
R6	1	SMD Resistor	100k		0603	generic	-	YES	YES
R9, R13, R14, R15, R16, R17	6	SMD Resistor	0R		0603	generic	-	YES	YES
R10, R11	2	SMD Resistor	3.3k		0603	generic	-	YES	YES
R12	1	SMD Resistor	560R		0603	generic	-	YES	YES
S1	1	3.5x2.9mm SMD J-Bend WS-TASV, height 1.7 mm, 350 gf	Pushbutton WE 3.5 x 2.9		Micro Switch 3.5 x 2.9 mm	Würth Electronic	434153017835	YES	YES
U1	1	Ultra-Low IQ 150 mA CMOS LDO Regulator	NCP170		SOT-563, 6 LEAD	ON Semiconductor	NCP170BXV330T2G	NO	YES
U2	1	Voltage supervisor	MAX809, 2.63V		SOT23 (TO-236)	ON Semiconductor	MAX809RTRG	NO	YES
U4	1	CMOS LDO Regulator	NCP170		SOT-563, 6 LEAD	ON Semiconductor	NCP170BXV180T2G	NO	YES
U5	1	SIP Smart Bluetooth Module	RSL10 SiP		SiP_RSL10 - B	ON Semiconductor	NCH-RSL10-101S51-ACG	NO	YES
U6	1	Accelerometer	BMA400		Bosch LGA12	Bosch Sensortec	BMA400	YES	YES
U7	1	Environmental Sensor	BME280		Bosch LGA8 2.5x2.5	Bosch Sensortec	BME280	YES	YES
U8	1	Temperature Sensor	NCT218		DFN8	ON Semiconductor	NCT218MTR2G	NO	YES
SOLARPANEL	1	Flexible, organic solar cell	FlexRB-25-7030		connected by wires	Ribestech	FlexRB-25-7030	YES	YES