



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

Designator	Quantity	Value	Description	Footprint	Manufacturer	Part Number	Lead Free
C1, C2, C4, C5	4	1uF	MLCC >= 10V	0603	Würth Electronic	885012206052	YES
C3	1	100uF	100uF, 6.3V	5x5.5mm	Würth Electronic	865090142005	YES
C6, C7, C8, C9, C10	5	100nF	MLCC >= 6.3V	0603	Würth Electronic	885012206020	YES
D1	1		Schottky Diode	SOD-323	ON Semiconductor	BAT54HT1G	YES
D2	1		6.2V Zener Diode	SOD-323	ON Semiconductor	MM3Z6V2ST1G	YES
D3	1	BAT54C	Dual series diode	SOT23 (TO-236)	ON Semiconductor	BAT54CLT1G	YES
D4	1		WL-SMCW SMD chip LED top view mono-color waterclear, 0603, Green	LED_0603	Würth Electronic	150060VS75000	YES
J4	1		ZIF connector 4 Pin		Würth Electronic	68610414422	YES
J7	1	JTAG	JTAG connector	JTAG_10Pin_header	Samtec	FTSH-105-01-F-DV-K	YES
J3, J8, J9	2	"VIN", "VBAT" and "PROG"	100mil spaced pin header		Würth Electronic	61300211121	YES
R1, R5, R18	3	10k	SMD Resistor	0603	generic	-	YES
R3	1	1M	SMD Resistor	0603	generic	-	YES
R4, R7, R8	3	68R	SMD Resistor	0603	generic	-	YES
R6	1	100k	SMD Resistor	0603	generic	-	YES
R9, R13, R14, R15, R16, R17	6	0R	SMD Resistor	0603	generic	-	YES
R10, R11	2	3.3k	SMD Resistor	0603	generic	-	YES
R12	1	560R	SMD Resistor	0603	generic	-	YES
S1	1	Pushbutton WE 3.5 x 2.9	3.5x2.9mm SMD J-Bend WS-TASV, height 1.7 mm, 350 gf	Micro Switch 3.5 x 2.9	Würth Electronic	434153017835	YES
U1	1	NCP170	Ultra-Low IQ 150 mA CMOS LDO Regulator	SOT-563, 6 LEAD	ON Semiconductor	NCP170BXV330T2G	YES
U2	1	MAX809, 2.63V	Voltage supervisor	SOT23 (TO-236)	ON Semiconductor	MAX809RTRG	YES
U4	1	NCP170	CMOS LDO Regulator	SOT-563, 6 LEAD	ON Semiconductor	NCP170BXV180T2G	YES
U5	1	RSL10 SiP	SIP Smart Bluetooth Module	SIP_RSL10 - B	ON Semiconductor	NCH-RSL10-101S51-ACG	YES
U6	1	BMA400	Accelerometer	Bosch LGA12	Bosch Sensortec	BMA400	YES
U7	1	BME280	Environmental Sensor	Bosch LGA8 2.5x2.5	Bosch Sensortec	BME280	YES
U8	1	NCT203	Temperature Sensor	DFN8	ON Semiconductor	NCT203MTR2G	YES
SOLARPANEL		AM-1522CA	Amorphous solar cell	connected by wires	Panasonic	AM-1522CA	YES