RIN1 = −RSET • (TC • 4405)

RIN2 = RIN1/({[VMP(25°C) + RIN1 • (0.0674/RSET)]/VIN_REG} − 1)

TC = temperature coefficient (in V/°C)

Comment	Description	Designator	Footprint	LibRef	Quantity
Battery	Battery	BT?		Battery	1
Solar Panel	Multicell Battery	BT?	BAT-2	Battery	1
100uF	Capacitor	C1, C1_S1, C1_S2, C1_S3, C3, C7, C10_S1, C10_S2, C10_S3	CAPC3225[1210]X120	C	9
10uF	Capacitor	C1, C2, C4	C1210	Cap Semi	3
100nF	Capacitor	C2, C2_S1, C2_S2, C2_S3, C3_S1, C3_S2, C3_S3, C4, C4_S1, C4_S2, C4_S3, C5, C6, C6_S1, C6_S2, C6_S3, C7_S1, C7_S2, C7_S3, C8, C8_S1, C8_S2, C8_S3, C9_S1, C9_S2, C9_S3, C11_S1, C11_S2, C11_S3	CAPC1005[0402]X50	C	29
1uF	Capacitor	C3, C5	C1210	Cap Semi	2
4.7uF	Capacitor	C5_S1, C5_S2, C5_S3	CAPC1608[0603]X80	C	3
100nF	Capacitor	C6, C7	0402	C	2
680nF	Capacitor	C8	0402	Cap Semi	1
D Schottky	Schottky Diode	D1, D2, D3	SMB	D Schottky	3
1N414B	Zener Diode	D?		D Zener	2
BAS11	Schottky Diode	D?		D_SCHOTTKY	2
LED	Light Emitting Diode	D?		LED	2
Lora Antenna	Generic Antenna	E?	PIN1	Antenna	1
MINI-USB-B	Mini USB B Connector	J?		TYCO_1734035_1	1
Inductor	Inductor	L1	LMX131J	Inductor	1
MOSFET-N	N-Channel MOSFET	Q1	Sot-23	MOSFET-N	1
151m	Resistor	R1	2510	Res2	1
100k	Resistor	R1, R1_S1, R1_S2, R1_S3, R2, R2_S1, R2_S2, R2_S3, R7, R8_S1, R8_S2, R8_S3, R12	RESC1005[0402]X35	R	13
330k	Resistor	R2	0603	Res2	1
1K	Resistor	R3	0603	Res2	1
4k7	Resistor	R3, R3_S1, R3_S2, R3_S3, R4, R4_S1, R4_S2, R4_S3	RESC1005[0402]X35	R	8
82k	Resistor	R4	0603	Res2	1
7.5k	Resistor	R5	0603	Res2	1
390	Resistor	R5, R5_S1, R5_S2, R5_S3, R8, R9, R9_S1, R9_S2, R9_S3, R11, R11_S1, R11_S2, R11_S3, R15_S1, R15_S2, R15_S3	RESC1005[0402]X35	R	16
24,4k	Resistor	R6	0603	Res2	1
120	Resistor	R6, R6_S1, R6_S2, R6_S3, R10, R14_S1, R14_S2, R14_S3	RESC1005[0402]X35	R	8
330k	Resistor	R7	0402	Res2	1
0	Resistor	R7_S1, R7_S2, R7_S3, R10_S1, R10_S2, R10_S3, R12_S1, R12_S2, R12_S3, R13_S1, R13_S2, R13_S3	RESC1005[0402]X35	R	12
10k	Resistor	R8	0603	Res2	1
180k	Resistor	R9	0402	Res2	1
62Ohm	Resistor	R?	RESC1005[0402]X35	R	1
91Ohm	Resistor	R?	RESC1005[0402]X35	R	1
100k	Resistor THT	R?	RESC1608[0603]X50	R	3
Extensiometer	Variable Resistor	R?	BOURNS3296W	POT2	1
Switch	Switch with Led	S?		SW_SPST_PB	1
LT3652EMSE#PBF	Battery Charger for Solar Power	U1	LT-MSE-12-EDP_N	LT3652EMSE#PBF	1
PCA9615	differential I2C-bus buffer	U1, U2_S1, U2_S2, U2_S3	TSSOP10	PCA9615	4
FXLS8471Q	3-Axis, Linear Accelerometer	U1_S1, U1_S2, U1_S3	16 LEAD QFN	FXLS8471Q	3
LM234Z-3	3-Terminal Adjustable Current Source, 3-pin TO-92	U2	SO-8	LM234Z-3	1
PCT2075TP	Temperature_Sensor	U3_S1, U3_S2, U3_S3	HWSON8	PCT2075TP	3
HEADER_12X2	Header, 12-Pin, Dual row	X1	HDR2X12_V_M	HEADER_12X2	1
WaspConnector	Connector	X1	Wasp_Connector	WaspConnector	1
Loch	Loch in Print um Kabel einzulöten	X1_S1, X1_S2, X1_S3, X2_S1, X2_S2, X2_S3, X3_S1, X3_S2, X3_S3, X4_S1, X4_S2, X4_S3, X5_S1, X5_S2, X5_S3, X6_S1, X6_S2, X6_S3, X7_S1, X7_S2, X7_S3, X8_S1, X8_S2, X8_S3, X9_S1, X9_S2, X9_S3, X10_S1, X10_S2, X10_S3, X11_S1, X11_S2, X11_S3, X12_S1, X12_S2, X12_S3, X13_S1, X13_S2, X13_S3, X14_S1, X14_S2, X14_S3, X15_S1, X15_S2, X15_S3, X16_S1, X16_S2, X16_S3, X17_S1, X17_S2, X17_S3, X18_S1, X18_S2, X18_S3	Loch	Loch	54
SolarConnector	Connector	X2	Solar_Connector	SolarConnector	1
BatteryConnector	Connector	X3	Battery_Connector	BatteryConnector	1
HEADER_8X2	Header, 16-Pin, Dual row	X3	HDR2X8_V_M	HEADER_8X2	1
Notification	Connector	X4	NOTIFICATION_CONNECTOR	Notification	1
Header_4Pol	Header Hirose 4 Pol	X4, X5	Header_2mm_4Pol	Header_Hirose_4	2
LötPad	PAD	X5	LötPad	LötPad	1
Header_10Pol	Header Hirose 10 Pol	X?	Header_2mm_10Pol	Header_Hirose_10	1