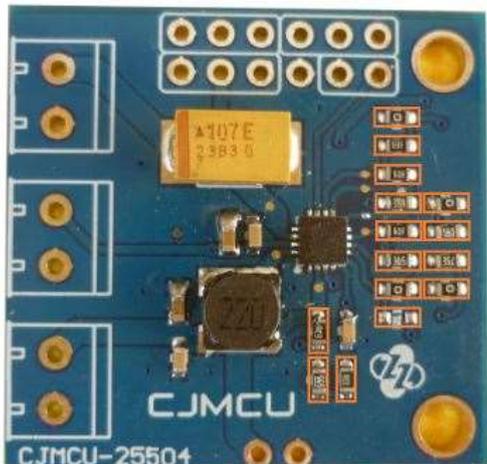


## Resistor Map, Values

The following image presents visually each resistor with both labels: IC manufacturer and module manufacturer.



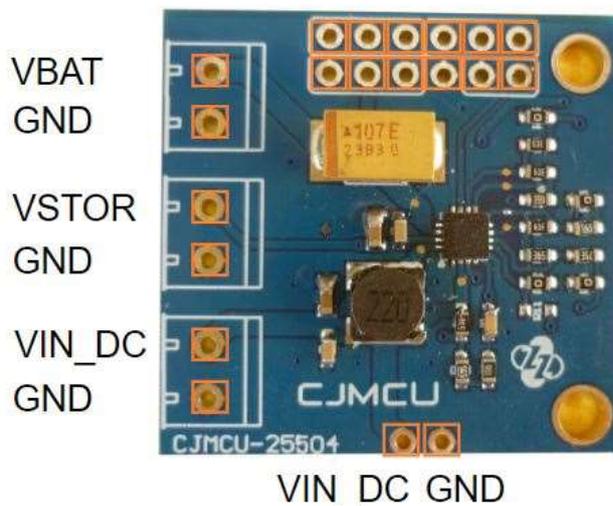
ROK1a(R16)	
ROK1(R8)	
ROK2(R9)	
ROK3(R7)	RUV1a(R15)
RUV2(R6)	RUV1(R5)
ROV2(R4)	ROV1(R3)
OT_PROG 60C(R12)	ROV1a(R14)
OT_PROG 120C(R11)	

ROC2(R2)	
ROC1(R10)	ROC1a(R1)

## Pinout

The following image presents visually each header pin with a label exactly written as in the IC manufacturer datasheet.

GND	VREF_SAMP	VOC_SAMP	VSTOR	VOC_SAMP	ROC2_ROC1_DIVIDER
GND	VBAT	VSTOR	GND	GND	VBAT_OK



In this module the voltage divider made of ROC1 and ROC2 is not connected to VOC\_SAMP pin. Instead, the middle point of the divider and VOC\_SAMP signals are routed to header pins. MPPT could be enabled or disabled externally.

## Module resistor values

The following tables show the values of the resistors that came soldered into the PCB. Those values are the same found in the IC sample design pdf.

### MPPT

TI ID	PCB ID	MARK	VALUE
ROC2	R2	63E	4.42 M
ROC1	R10	565	5.60 M
ROC1a	R1	106	10.0 M

### OVERVOLTAGE

TI ID	PCB ID	MARK	VALUE
ROV2	R4	59E	4.02 M
ROV1	R3	75E	5.90 M
ROV1a	R14	0	0 M

### UNDERVOLTAGE

TI ID	PCB ID	MARK	VALUE
RUV2	R6	61E	4.22 M
RUV1	R5	565	5.60 M
RUV1a	R15	0	0 M

### VOLTAGE OK

TI ID	PCB ID	MARK	VALUE
ROK3	R7	16E	1.43 M
ROK2	R9	61E	4.22 M
ROK1	R8	63E	4.42 M
ROK1a	R16	0	0 M

## OVERTEMPERATURE

TI ID	PCB ID	MARK	VALUE
OT_PROG 60	R12	0	0 M
OT_PROG 120	R11	N/A	N/A

Here are the configuration parameters obtained with the aforementioned resistor values:

PARAMETER	VALUE
VBAT_OV	3.15 V
VBAT_UV	2.20 V
VBAT_OK	2.44 V
VBAT_OK_HYST	2.80 V
MPP	78 %
OVERTEMP	60 C

This configuration uses a solar cell as input and 2x 1.25V NiMH rechargeable batteries in series as a storage device

## Example values for LiFePO4 3.2 V

### MPPT

TI ID	PCB ID	MARK	VALUE
ROC2	R2	63E	4.42 M
ROC1	R10	565	5.60 M
ROC1a	R1	106	10.0 M

### OVERVOLTAGE

TI ID	PCB ID	MARK	VALUE
ROV2	R4	475	4.70 M
ROV1	R3	515	5.10 M
ROV1a	R14	244	240 K

## UNDERVOLTAGE

TI ID	PCB ID	MARK	VALUE
RUV2	R6	515	5.10 M
RUV1	R5	515	5.10 M
RUV1a	R15	NONE	0 M

## VOLTAGE OK

TI ID	PCB ID	MARK	VALUE
ROK3	R7	01E	1.00 M
ROK2	R9	475	4.70 M
ROK1	R8	395	3.90 M
ROK1a	R16	30D	200 K

## OVERTEMPERATURE

TI ID	PCB ID	MARK	VALUE
OT_PROG 60	R12	0	0 M
OT_PROG 120	R11	N/A	N/A

Here are the configuration parameters obtained with the aforementioned resistor values:

PARAMETER	VALUE
VBAT_OV	3.50 V
VBAT_UV	2.50 V
VBAT_OK	2.70 V
VBAT_OK_HYST	3.00 V
MPP	78 %
OVERTEMP	60 C

This configuration uses a solar cell as input and 1x 3.2V LiFeP04 rechargeable battery as a storage device