

Specifications

Rating	Value	Unit
Maximum Input Voltage	30	Vdc
Minimum Input Voltage	7	
Output Voltage	5	
Nominal Current	3	A
Short circuit current	7	
Operating Temperature Range	-55 to +125	°C
FZT948TA Operation Temperature	-55 to +150	
LD1086 Operation Temperature	-65 to +150	
Capacitor Operation Temperature	-55 to +125	

github.com/lucasguerra/power_vision

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Lucas Rayan Guerra da Silva

Sheet: /Power/

File: Power.kicad_sch

Title: Power Schematic

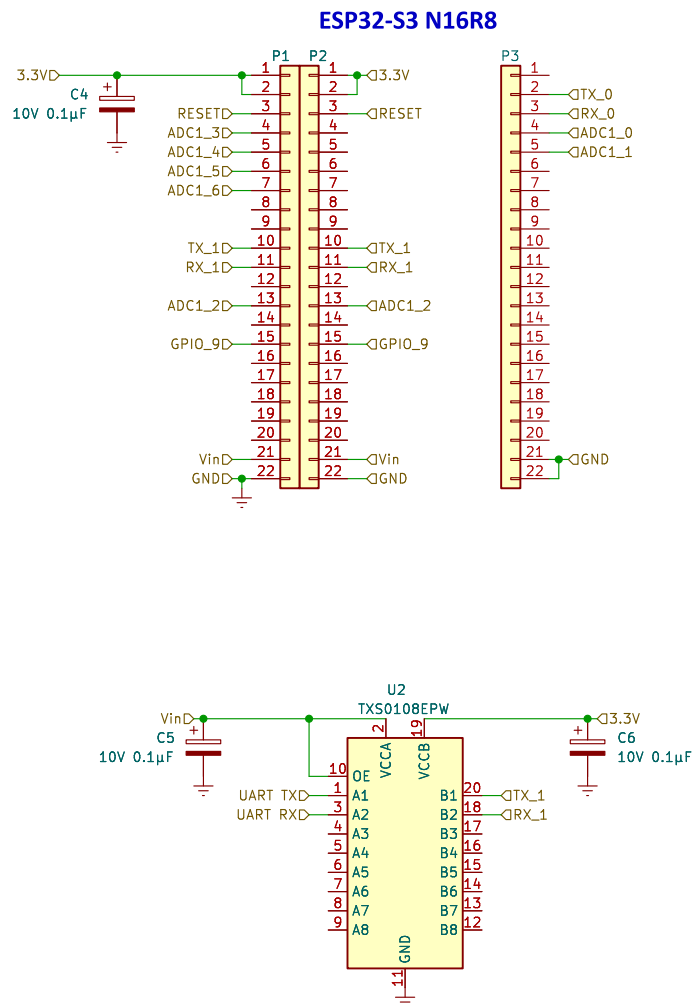
Size: A4

Date: 2024-09-27

Rev: 1.0

KiCad E.D.A. 8.0.6

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Specifications

Rating	Value	Unit
Input Voltage - Vin	5	Vdc
Nominal Current	0.2	A
Operating Temperature Range	-40 to +65	°C
ESP32-S3 Operation Temperature	-40 to +65	
TXS0108E Operation Temperature	-40 to +85	
Capacitor Operation Temperature	-55 to +125	

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Sheet: /Microcontroller/

File: Microcontroller.kicad_sch

Title: Microcontroller

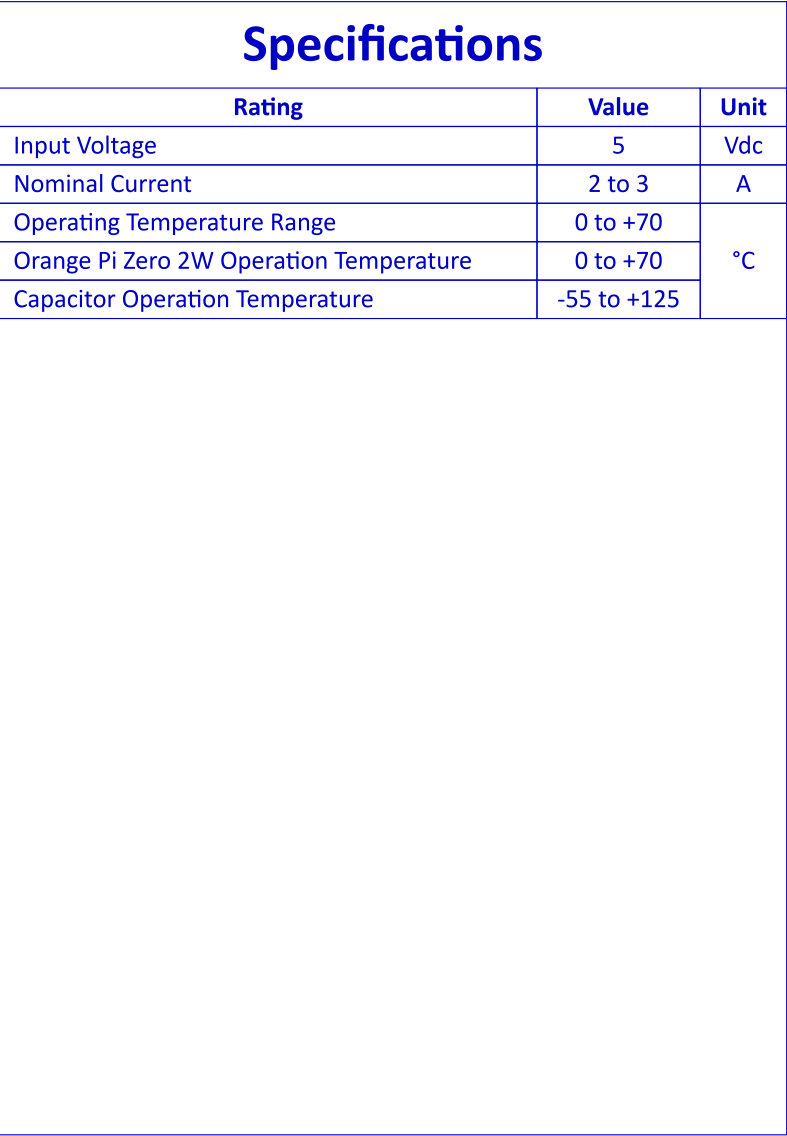
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Date: 27/09/2024

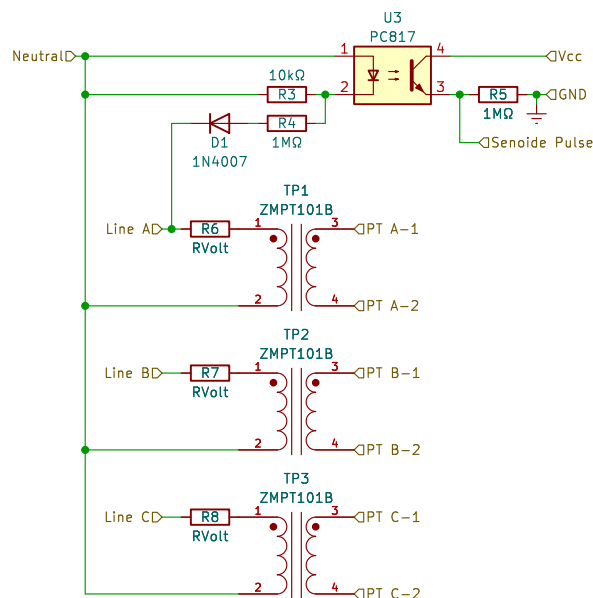
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Specifications

Rating	Value	Unit
Input Voltage Range	0 to 1000	Vac
ZMPT101B Nominal Current Range	1 to 2	mA
Operating Temperature Range	-30 to +60	°C
ZMPT101B Operation Temperature	-40 to +60	
PC817 Operation Temperature	-30 to +100	

Resistor to Voltage

System Voltage (RMS)	RVolt	Type
440Vac	374kΩ	0
380Vac	328kΩ	1
220Vac	205kΩ	2
127Vac	130kΩ	3

Observation

After selecting the ideal resistor for your application, according to the table, remember to modify the value of the variable "VOLTAGE_TYPE" in the microcomputer according to what's in the table

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Sheet: /Signals Acquisition/

File: Signals Acquisition.kicad_sch

Title: Signals Acquisition

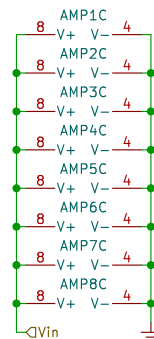
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Date: 2024-09-27

Rev: 1.0

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