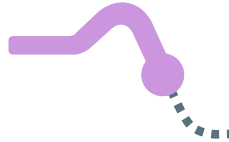




## Community



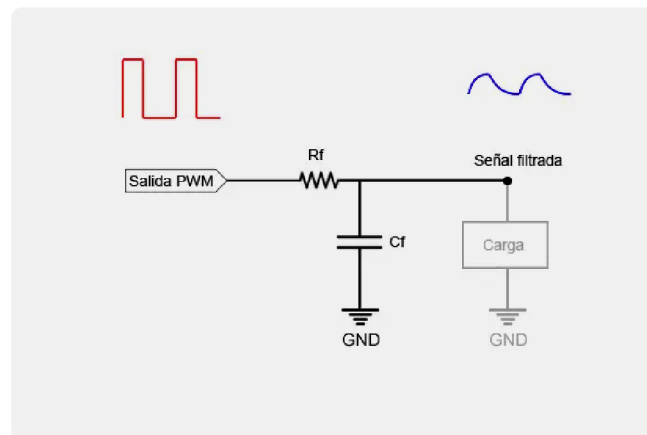
## Sections

-  Courses
-  Engineering
-  Arduino
-  ESP32
-  Computing
-  Development
-  Raspberry Pi / Linux
-  3D printing
-  Electronics
-  Design

# Low Pass Filter Calculator for PWM

With this calculator we can determine the parameters of a PWM filter, as well as calculate and visualize its time response.

The connection scheme is as follows



For more information, check the [analog output using PWM and low pass filter entry](#)

## Signal values

Voltage	3.5	Volts
PWM frequency	1000	Hz
PWM period	0.001	seconds
Duty Cycle	75	%

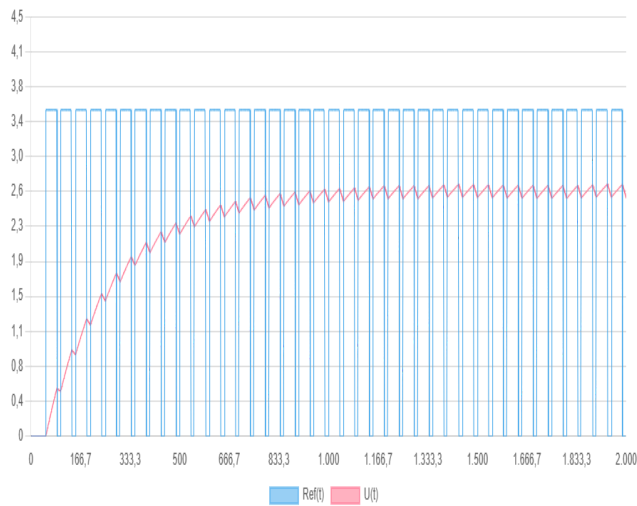
# Filter values



Resistance	100	Ohms
Capacitance	0.000047	Farads
RC time constant (tau)	0.0047	seconds

# Results

Cut-off frequency	33.8627	Hz
Average voltage	2.63	Volts
Ripple	0.1395	Volts
Response time to 90 %	0.010822	seconds



Topics: Electronics Calculator

## You may also be interested in:

BJT Transistor Calculator as a Switch

Voltage Divider Calculator

Current Divider Calculator

Standardize d Resistor Calculator



**Luis Llamas**

Engineering, computing and design

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