

# MM4047

2023/07/20

## Overview

This IC is ultra low noise LDO capable of supplying 450mA output current. Designed to meet the requirements of RF circuits, Image sensor and high resolution audio codec, the device provides low noise, High PSRR. It is available in WLCSP (0.65 mm×0.65 mm) and PLP-4 (1.0mm×1.0mm), which are suitable for smartphones, wireless earphones and wearable devices.

## Application

- Portable communication device
- Photographing / Imaging device
- Wearable device
- Power supply for high-sensitivity image sensor
- Power supply for ADC / DAC
- Power supply for RF circuit

## Features

Low noise  
High ripple rejection

## Main specifications

Output current [mA]	450
Absolute maximum rating [V]	6.0
Recommended operating voltage	0.70

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Min. [V]	4.20
Recommended operating voltage Max. [V]	5.5
Output voltage Min. [V]	1.80
Output voltage Max. [V]	4.50
Output voltage accuracy [%]	±2.0
No-Load Input Current [μA]	14.0
Dropout Voltage [V]	0.16
PSRR [dB]	80
Output capacitor [μF]	2.20
Circuit structure	1ch LDO
Operating ambient temperature Min. [deg.C]	-40
Operating ambient temperature Max. [deg.C]	85
OFF input current Typ. [μA]	0.20
Output noise voltage Typ. [μVrms]	6
Protection function	OCP, TSD
Additional function	ON/OFF control, Auto discharge

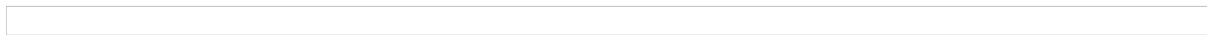
## Package

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SSON-4D

WLCSP-4E

## Case Studies



**No amplifier or software design required. Development of an LDO for automobiles with open load/short circuit detection function. [Power Supply IC]**