## WÜRTH ELEKTRONIK

## Quick Start Guide

Mag| ${ }^{3} \mathrm{C}$ Power Module Evaluation Board for 171960501 LGA6-EP

## Schematic



The additional aluminum polymer capacitor C 1 is only for evaluation board protection purposes. It is mounted at the termination of the supply line and provides slight damping of possible oscillations of the series resonance circuit represented by the inductance of the supply line and the input capacitance. It is not essential for operation.

For accurate $\mathrm{V}_{\mathbb{N}}$ and $\mathrm{V}_{\text {out }}$ voltage measurements it is recommended to measure directly at the input and output capacitors C 2 and C3.

It is not recommended to use this evaluation board with input and output wire lengths longer than 1 m .
For the datasheet of the power module visit us at: https://katalog.we-online.de/de/pm/MAGIC-VDMM
This product is highly sensitive to electrostatic discharge (ESD). As such, always use proper ESD precautions when handling. Failing to follow the aforementioned recommendations can result in severe damage to the part.

WARNING! - Before operating read the attached IMPORTANT NOTICE document!



## Overview

## WÜRTH ELEKTRONIK



Description
$\mathbf{V}_{\mathbb{N}} 2.7-5.5 \mathrm{~V}$
$\mathbf{V}_{\text {out }} 0.6-5.5 \mathrm{~V}$
$\mathbf{I}_{\text {OUT }} 0.6 \mathrm{~A}$

1 VDMM Variable Step Down MicroModule LGA6-EP
2 Jumpers (J1) for selection between forced PWM \& PFM/PWM
3 Jumpers (J2) for ENABLE \& shut off the Module
4 Jumpers to set predefined output voltage $\mathrm{V}_{\text {out }}$
5 Test clip connection pins for $\mathrm{V}_{\mathbb{N}}$ and $\mathrm{V}_{\text {out }}$

- Default jumper position


## Absolute maximum ratings

Caution: Exceeding the abs. max. values given in the datasheet may affect the device negatively and may cause permanent damage.

$\triangle$This evaluation board is intended to be operated in a research and development environment under the supervision of qualified technicians and engineers who are trained and experienced in the safe use of electronics. This evaluation board was designed and tested according to CISPR32 Class B standards under Würth Elektronik laboratory test conditions, as indicated in the data sheet of the corresponding power module. Operation in other test setups may cause unintended electrical behavior and exceed the stated performance and limits imposed by the CISPR32 Class B standards. This evaluation board is not intended for usage in final applications. This evaluation board is not intended for resale.

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