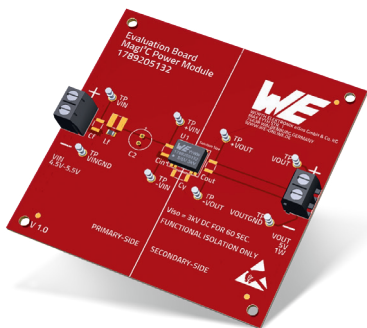


**WÜRTH ELEKTRONIK**  
MORE THAN YOU EXPECT



# QUICK START GUIDE

**Mag1C Power Module Evaluation  
Board for 1769205132 LGA-7**

**Evaluation Board 1789205132**

**Version 1.0**

# SCHEMATIC

## Features



Functional  
Isolation



EN55032  
Class B



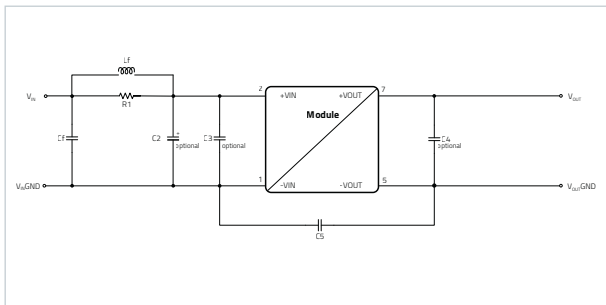
Fix Freq.



SCP



T<sub>j</sub>  
125 °C



For accurate  $V_{IN}$  and  $V_{OUT}$  voltage measurements it is recommended to measure directly at the test pins +VIN/-VIN and +VOUT/-VOUT. If additional input and output capacitors are assembled the the measurement should be performed directly at the capacitors. The module is a functional isolated module up to 3kV DC for 60 sec. If measurements at the input and output are performed at the same time it's recommended to use differential probes to avoid connection of input and output through the used measurement equipment

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: [www.we-online.com/catalog/en/magic-fimm](http://www.we-online.com/catalog/en/magic-fimm)



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.



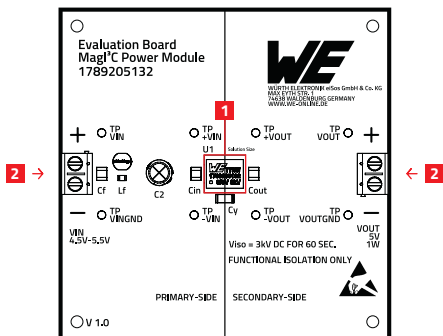
**WARNING! – Before operating read the attached important notice document!**

Ref. Des.	Description Order Code
U1	Magi <sup>3</sup> C Power Module (1769205132)
C2	Through hole electrolytic (optional)
C <sub>IN</sub>	Ceramic chip capacitor (optional)
C <sub>OUT</sub>	Ceramic chip capacitor (optional)
C <sub>y</sub>	Ceramic chip capacitor 1nF/3kV X7R, 1808 (optional) (885342210004)
C <sub>f</sub>	Ceramic chip capacitor 10μF/16V X7R, 1210 (optional) (885012209014)
L <sub>f</sub>	Filter inductor, 6.8μH, PD2 (optional) (744773068)

For Layout, Gerber and  
Step files visit us on  
[www.we-online.com/  
catalog/en/magic-fimm](http://www.we-online.com/catalog/en/magic-fimm)



# OVERVIEW



## Description

$V_{IN}$  4,5 – 5,5V

$V_{OUT}$  5V

$I_{OUT}$  0.2A

**1** FIMM Fixed Isolated MicroModule LGA-7

**2** Terminal block screw connectors for  $V_{IN}$  and  $V_{OUT}$

## Absolute maximum ratings

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

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.

