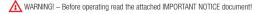


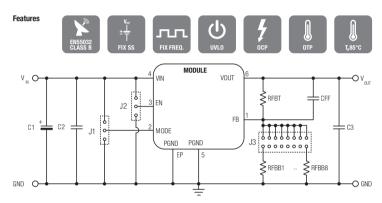
Quick Start Guide

Magl³C Power Module Evaluation Board for 171960501 LGA6-EP





Schematic



The additional aluminum polymer capacitor C1 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 V_N and V_{OUT} voltage measurements it is recommended to measure directly at the input and output capacitors C2 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!



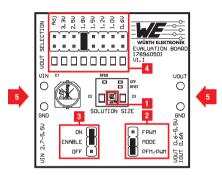
Ref.Des.	Description (Order Code)	
U1	Magl ³ C MicroModule (171960501)	
C1	Aluminum polymer capacitor 220 µF/10 V (875105244013)	
C2	Ceramic chip capacitor 10 µF/16 V X5R, 0805 (885012107014)	
C3	Ceramic chip capacitor 10 µF/16 V X5R, 0805 (885012107014)	
CFF	Ceramic chip capacitor 22 pF/10 V NP0/COG 0402 (885012005009)	
RFBT	24.9 kΩ	
RFBB	Set by jumper	Open for $V_{OUT} = 0.6 V$
		36.5 k Ω for V _{OUT} = 1.0 V
		24.9 k Ω for $V_{0UT}=1.2$ V
		16.5 k Ω for $V_{0UT}=1.5$ V
		12.4 k Ω for V _{OUT} = 1.8 V (default setting)
		7.68 k Ω for $V_{0UT}=2.5$ V
		5.36 k Ω for V_{OUT} = 3.3 V
		To be soldered for adjustable output voltage $R_{FBB} = \frac{R_{FBT}}{V_{OUT}}$
		J1
J2	Jumper for EN connection to either V _N (device enabled) or GND (device disabled) (61300311121)	
J3	Jumper for output voltage selection. Only one resistor should be selected at a time (61301621121)	



For Layout, Gerber and STP files visit us on: www.we-online.com/magic-vdmm



Overview



Description

V_{IN} 2.7-5.5 V **V**_{OUT} 0.6-5.5 V **I**_{OUT} 0.6 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 V_{OUT}
- 5 Test clip connection pins for VIN and VOUT
- 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.

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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