Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Straße 1 · 74638 Waldenburg · Germany Tel. +49(0)7942 945-0 · Fax +49(0)7942 945-400 eiSos@we-online.de · www.we-online.de



Product/Process Chan Major change Minor change	ge Notice (PCN)
PCN #: PCN_VDRM_20180201 Product Affected: 171020601 PCN Date: December 18 th , 2017 Effective Date: February 1 st , 2018	 Product Mark Date Code Packaging Others
Contact: Product Management Phone: +49 (0) 7942 - 945 5001 Fax: +49 (0) 7942 - 945 5179 E-mail: <u>pcn.eisos@we-online.de</u> /	Attachment: 🗌 Yes 🖾 No Samples:
In the continuous process of offering more w Würth Elektronik has enlarged the technical (TO263 2.0A 5Vout) datasheet significantly. In addition the electrical specifications of the value.	value to our customers, I content of the MagI ³ C power module 171 020 601 e reference voltage has been adjusted to a tighter max or reliability of the product.
DETAIL OF CHANGE: Changed reference voltage over temperatur (min. 0.784V; typ. 0.804V; max. 0.825V) to (min. 0.775V; typ. 0.795V; max. 0.815V) This has no impact on existing designs. No No further changes in the electrical specifica Additional information has been included in	re spec. from changes of the application circuitry have to be applied. ations have been done. the datasheet:
 Bookmarks have been activated for Package bottom view has been added Marking description has been added Ordering information of related famili Electrical specifications table has been added All electrical performance curves has with improved readability Line and load regulation diagrams here Links for equations, chapters, paramovithin the document 	r quick chapter navigation ded d ily members has been added een structured in sections in order to improve readability ave been measured with higher resolution and presented have been added neters, etc. have been implemented for easy navigation

Komplementär Würth Elektronik elSos Verwaltungs-GmbH, Sitz Waldenburg, Registergericht Stuttgart HRB 581033 - Geschäftsführer Oliver Konz, Thomas Schrott, Alexander Gerfer Bankverbindungen UniCredit Bank AG Stuttgart, Konto 322 620 136, BLZ 600 202 90, IBAN DE86 6002 0290 0322 6201 36, SWIFT/BIC HYVEDEMM473 USt.-IdNr. DE220618976

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•	Added	diagram	of switching	frequency	versus Ro	ON
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- Added diagram of efficiency versus switching frequency
- Output capacitor selection approach is explained and mathematically calculated based on ripple and transient requirements
- Load transition waveforms are displayed. A practical example is calculated and measured waveforms are presented.
- Effect of soft-start is shown
- Light load operation description has been added with inductor current diagrams showing the effect on the output voltage ripple
- Overvoltage protection, overcurrent protection, short circuit protection and startup into prebiased load are described in detail and graphs have been added
- Layout section has been upgraded with more details, close up PCB pictures and additional recommendations
- EVAL board description has been extended with an explanation of the circuit and operational instructions
- EMI Filter design section has been added

RELIABILITY / QUALIFICATION SUMMARY:

Product specification approval, according to internal requirements, has been released by the Quality Department and the Product Management Department.

🖂 Yes

🗌 No