

LOW QUIESCENT CURRENT PFM STEP DOWN CONVERTERS

PRODUCTION DATA - OCT 15, 2014

Features

- ▶ Wide input voltage range 4.5V to 40V
- ► PFM regulator up to 1.33MHz
- ► Up to >92% efficiency
- Very low 8μA sleep mode current
- ► Ultra low 12µA standby current
- ► 100% duty cycle capability
- Small QFN20L4 lead-less package
- ► TSSOP16 package
- ► AEC-Q100 qualification
- ► Junction temperature range -40°C to +150°C

Applications

- Micro Controller Systems
- Automotive Telematics, Dashboards
- Partial Networking
- Peripheral Control Systems

Ordering Information

V _{out}	I _{out}	Package
5V	500mA	QFN20L4*/TSSOP16
3.3V	500mA	QFN20L4*/TSSOP16
5V	350mA	QFN20L4*/TSSOP16
3.3V	350mA	QFN20L4*/TSSOP16
1.5 to 40V	500mA	QFN20L4*/TSSOP16
1.5 to 40V	350mA	QFN20L4*/TSSOP16
	5V 3.3V 5V 3.3V 1.5 to 40V	5V 500mA 3.3V 500mA 5V 350mA 3.3V 350mA 1.5 to 40V 500mA

General Description



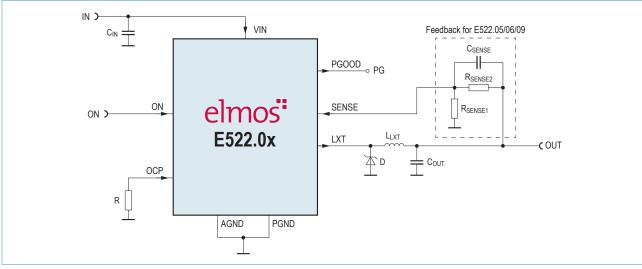
The E522.01/02/03/04/05/06/07/08/09 product family provides ultra low quiescent current step down DC/DC converters with integrated power MOSFET.

The PFM (Pulse Frequency Modulation) regulator allows outstanding fast line- and load response time, stability and high efficiency over the full load current range. The integrated idle detection assures an ultra low idle current and high efficiency with low load currents down to $<\!100\mu\text{A}$ for the completely powered application. A power-good signal is provided by a high-voltage opendrain low-side switch.

The E522.0x buck converter accommodates to common single supply micro controller applications. Low external component count and small QFN20L4 / TSSOP16 package allow compact PCB designs.

Product	V _{out}	I _{out}	Package
E522.07	5V	1A	QFN20L4*
E522.08	3.3V	1A	QFN20L4*
E522.09	1.5 to 40V	1A	QFN20L4*

^{*} Package also available with wettable flanks (please contact Elmos for ordering number)



Elmos Semiconductor AG reserves the right to change the detail specifications as may be required to permit improvements in the design of its products.

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Elmos Support 10/2014

Headquarters

Elmos Semiconductor AG

Heinrich-Hertz-Str. 1 44227 Dortmund (Germany) Phone: +49 (0) 231 / 75 49-100 Fax: +49 (0) 231 / 75 49-149 sales-germany@elmos.com

www.elmos.com

Sales and Application Support Office North America

Elmos NA. Inc.

32255 Northwestern Highway, Suite 220 Farmington Hills, MI 48334 (United States) Phone: +1 (0) 248 / 8 65 32 00 sales-usa@elmosna.com

Sales and Application Support Office

Elmos Semiconductor Technology (Shanghai) Co., Ltd.

Unit 16B, 16F Zhao Feng World Trade Building, No. 369 Jiang Su Road, Chang Ning District,

Shanghai, PR China, 200050 Phone: +86 (0) 21 / 6210 0908 Fax: +86 (0) 21 / 6219 7502 sales-china@elmos.com

中国地区销售与应用支持

艾尔默斯半导体技术(上海)有限公司中国 上海市 长宁区 江苏路369号 兆丰世贸大厦16楼 16B单元,200050

电话: +86 (0) 21 / 6210 0908 传真: +86 (0) 21 / 6219 7502 sales-china@elmos.com

Sales and Application Support Office Korea

Elmos Korea

B-1007, U-Space 2, #670 Daewangpangyo-ro, Sampyoung-dong, Bunddang-gu, Sungnam-si Kyounggi-do 463-400 Korea Phone: +82 (0)31 / 7 14 11 31 sales-korea@elmos.com

Sales and Application Support Office Japan

Elmos Japan K.K.

BR Shibaura N Bldg. 7F 3-20-9 Shibaura, Minato-ku, Tokyo 108-0023 Japan Phone: +81 3 / 3451-7101

Fax: +81 3 / 3451-7104 sales-japan@elmos.com

Sales and Application Support Office Singapore

Elmos Semiconductor Singapore Pte Ltd.

3A International Business Park #09-13 ICON@IBP

609935 Singapore Phone: +65 (0) 6908 1261

Fax: +65 (0) 6570 5906 sales-singapore@elmos.com

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