

## 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

Product	V <sub>OUT</sub>	I <sub>OUT</sub>	Package
E522.01	5V	500mA	QFN20L4*/TSSOP16
E522.02	3.3V	500mA	QFN20L4*/TSSOP16
E522.03	5V	350mA	QFN20L4*/TSSOP16
E522.04	3.3V	350mA	QFN20L4*/TSSOP16
E522.05	1.5 to 40V	500mA	QFN20L4*/TSSOP16
E522.06	1.5 to 40V	350mA	QFN20L4*/TSSOP16

### General Description

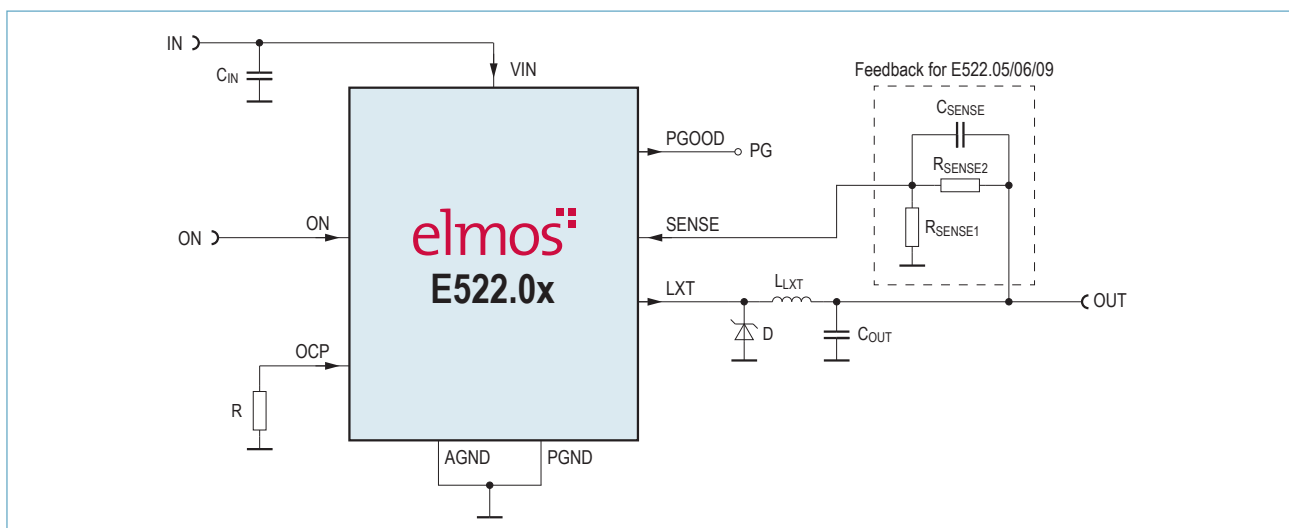
The E522.01/02/03/04/05/06/07/08/09 product family provides ultra low quiescent current step down DC/DC converters with integrated power MOSFET.

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 <100μA for the completely powered application. A power-good signal is provided by a high-voltage open-drain 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 <sub>OUT</sub>	I <sub>OUT</sub>	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.

# Elmos Support 10/2014

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