

LOW POWER STEP DOWN CONVERTER

PRELIMINARY INFORMATION - AUG 17, 2012



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
- ▶ SOIC8-EP package
- ▶ Ambient temperature range up to +105°C

Applications

- ▶ Industry
- ▶ Consumer

General Description

The E522.71/72/73/74/75/76/77/78/79 product family provides ultra low quiescent current step down DC/DC converters with integrated power MOSFET.

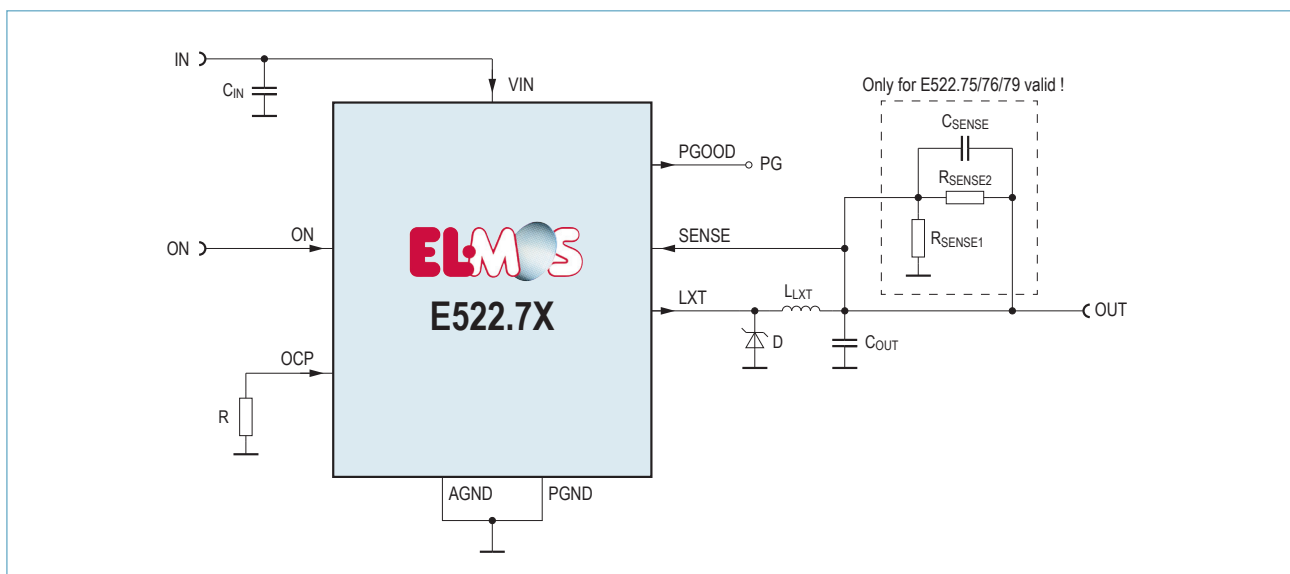
The PFM (Pulse Frequency Modulation) regulator allows outstanding fast line- and load response time, stability and high efficiency over the full load current range. The integrated idle detection assures an ultra low idle current and high efficiency with low load currents down to <100µA for the completely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

The E522.7x buck converter accommodates to common single supply micro controller applications. Low external component count and small exposed die pad SOIC 8-EP package allow compact PCB designs.

Ordering Information

Product ID	V _{OUT}	I _{OUT}	Ambient Temp. Range
E522.71	5V	500mA	-40°C to +105°C
E522.72	3.3V	500mA	-40°C to +105°C
E522.73	5V	350mA	-40°C to +105°C
E522.74	3.3V	350mA	-40°C to +105°C
E522.75	1.5 to 40V	500mA	-40°C to +105°C

Product ID	V _{OUT}	I _{OUT}	Ambient Temp. Range
E522.76	1.5 to 40V	350mA	-40°C to +105°C
E522.77	5V	1A	-40°C to +105°C
E522.78	3.3V	1A	-40°C to +105°C
E522.79	1.5 to 40V	1A	-40°C to +105°C



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ELMOS Support 08/2012

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