

1 Features

- 3-A Converter Integrated 70-mΩ and 30-mΩ FETs
- Current Mode Adaptive On-Time Control
- Input Voltage Range: 4.5 V to 18 V
- Output Voltage Range: 0.8 V to 7 V
- Discontinuous Conduction Mode for Light Load
- Constant 1.3-MHz Switching Frequency
- Low Shutdown Current Less than 10 μ A
- 1% Feedback Voltage Accuracy (25°C)
- Cycle-by-Cycle Overcurrent Limit
- Hiccup-mode Overcurrent Protection
- Non-Latch UVP and TSD Protections
- Fixed Soft Start: 1 ms

2 Applications

- Broadband Modem
- Access Point Networks
- Wireless Routers
- Surveillance
- TV, Set-Top Boxes

3 Description

The CPP211 is a high efficiency 1.3MHz, Constant-on-Time (COT) control mode synchronous step-down DC-DC converter capable of delivering up to 3A current.

CPP211 integrates main switch and synchronous switch with very low (70mΩ and 30mΩ) RDS(ON) to minimize the conduction loss.

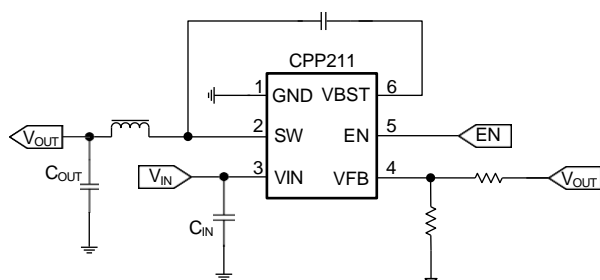
Low output voltage ripple and small external inductor and capacitor size are achieved with 1.3MHz switching frequency. It adopts the COT architecture to achieve fast transient responses for high voltage step down applications.

The CPP211 requires a minimum number of readily available standard external components and is available in a 6-pin SOT23-6 ROHS compliant package.

PART NUMBER	PACKAGE	BODY SIZE (NOM)
CPP211	SOT-23-THIN (6)	1.60 mm × 2.90 mm

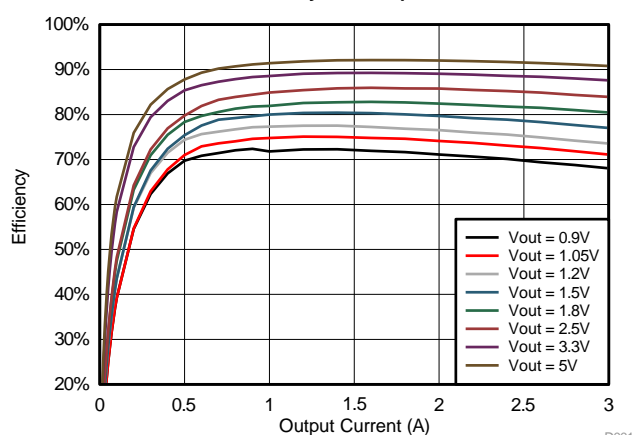
(1) For all available packages, see the orderable addendum at the end of the data sheet.

Simplified Schematic



CPP211 Efficiency

Efficiency at 12V input



D001