

Infineon CoolMOS™ C7

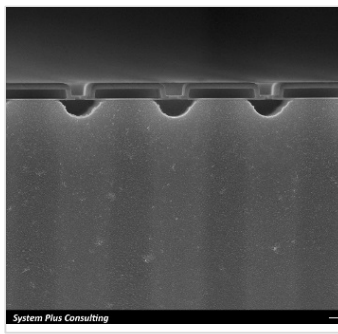
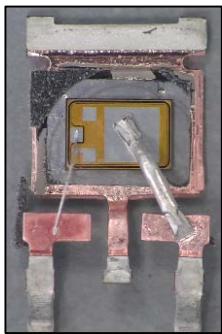
7th generation Superjunction MOSFET

Infineon has improved the epitaxy process with a direct impact on R_{dson}, 20% lower.

The CoolMOS™ C7 from Infineon is the 7th generation high-voltage Superjunction structure power MOSFET. With a breakdown voltage of 650V for a current of 7A (100°C), the C7 is optimized for hard switching topologies such as Power Factor Correction, solar boost circuit applications.

The CoolMOS™ C7 offers a very low on-resistance (between 19mΩ and 225mΩ), and a fast switching speed, more than 100KHz. The C7 differs from the C6 via a **new multi-epitaxy technology** and an original contact solution. The C7 wafer cost is 10% higher than the C6 but the current density is 25% higher and the power losses 20% lower.

This reverse costing report provides an estimation of the production cost of the IPD65R225C7, a discrete CoolMOS™ transistor.



REVERSE COSTING ANALYSIS
REPORT BY SYSTEMPlus CONSULTING

Superjunction MOSFET
80 pages
April 2014
Pdf file + Xls file

PRICE :
Full report: EUR 2,990
Technology report: EUR 1,990

COMPLETE TEARDOWN WITH:

- Comparison of C7 vs. C6 gen.
- Detailed photos and identification
- Manufacturing process flow
- In-depth economical analysis
- Manufacturing cost breakdown
- Selling price estimation

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*For price in dollars please use the day's exchange rate

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The present document is valid 6 months after its publishing date: May 2014.

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System Plus Consulting specializes in the **cost analysis** of electronics, from **semiconductor devices** to **electronic systems**, and has developed a complete range of services and costing tools to provide **in-depth production cost studies** and to estimate the **objective selling price** of a product.

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