

ALLCP – ALL SILICON CHARGE PUMP



Contact

Marcus Pietzsch
Phone +49 351 88 23 - 355
marcus.pietzsch@ipms.fraunhofer.de

Dr. Frank Deicke
Phone +49 351 88 23 - 385
frank.deicke@ipms.fraunhofer.de

www.ipms.fraunhofer.de

IPMS-ALLCP

ALL SILICON CHARGE PUMP FOR X-FAB 180 NM

Fraunhofer IPMS offers an all silicon charge pump module which does not need any further external components. Efficiency is up to 97%.

FEATURES

- Silicon proven in X-FAB XP018
- Input Voltage: 2.5 – 3.3 V
- Output Voltage: 3 – 35 V
- Up to 97% efficiency
- 60% efficiency for 3 V to 24 V operation @ 10 mW output power
- No external components

BENEFITS

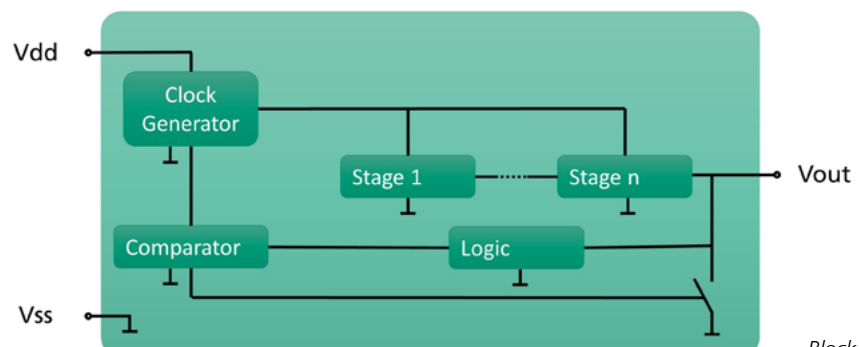
- Low power high voltage systems
- Low power driver circuits
- Battery-free IoT devices
- Wireless sensor modules
- Sensor modules with long lifetime

DELIVERABLES

- Datasheet & integration guide
- HDL model
- GDSII layout
- Customer support

APPLICATIONS

- IoT devices
- Wireless modules
- Sensor modules
- Medical devices



Block diagram