



ALLCP – All silicon charge pump

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

Applications

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

Deliverables

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

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