

### CP80-90U - 1.8V to 3.3V Step-Up Voltage regulator

#### FEATURES

- 3.3V output
- 80mA maximum Load current
- Overload protection trough current limiting
- Disable mode allowing external 3.3v Supply
- Suspend mode (IDD max. 110uA)
- Vin = 1.65V...1.95V
- External capacitor 2.2uF or higher (Ceramic)

#### OVERVIEW

The cell is a switched-capacitor voltage doubler, with 80mA load current capability. Only one external floating capacitor of 220nF in addition to the input and output capacitor is required. It has a built-in oscillator and, optionally, a built-in bandgap reference circuit.

#### APPLICATIONS

On chip voltage regulation for analog or digital circuits requiring 3.3V operating voltage in 1.8v systems.

**TECHNOLOGY:** 90nm single Poly, 6 Metal, Low Leakage, CMOS Process

#### FUNCTIONAL DIAGRAM

