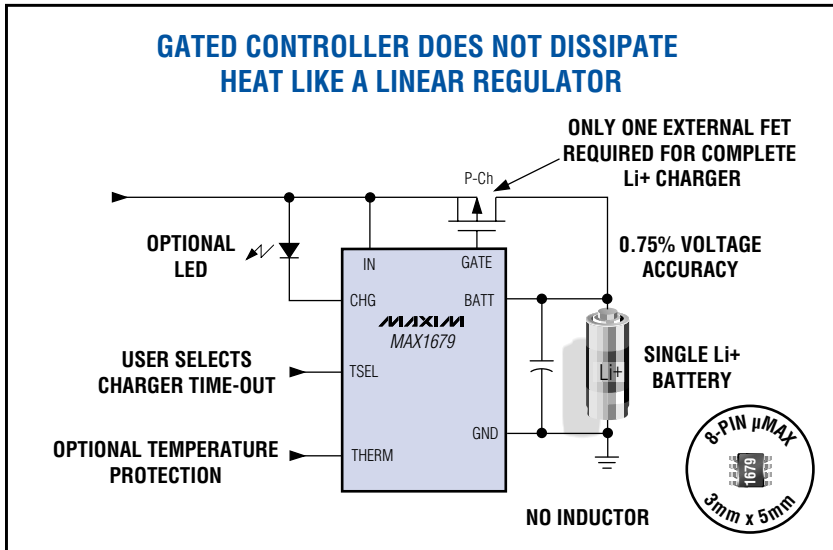


SMALLEST Li+ BATTERY CHARGER DISSIPATES NO HEAT

Gated Controller Allows Charger to Be Built into Phone



**NO
CHARGER POWER
DISSIPATION
IN HANDSET**



- ◆ Gated-Controller Circuit Has Low Power Dissipation
- ◆ Compact Stand-Alone Design (μMAX Package)
- ◆ No Inductor
- ◆ 0.75% Voltage Accuracy
- ◆ Continuous Overvoltage and Over/Undertemperature Protection
- ◆ Internal Counter for Charger Time-Out

The MAX1679 and an external PMOS FET make up a complete, stand-alone charger for a single-cell Li+ battery. An inexpensive, current-limited wall cube sets the charging current, and the external FET switch is either on or off. Unlike a linear regulator, this gated controller dissipates virtually zero power, minimizing heat. The MAX1679 has 0.75% voltage accuracy, continuous over/undertemperature protection, and user-selectable time-outs. Other features include: low-current precharge for a near-dead cell, pulsed top-off charging to maintain full battery capacity, and automatic powerdown when the wall cube is removed.



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