

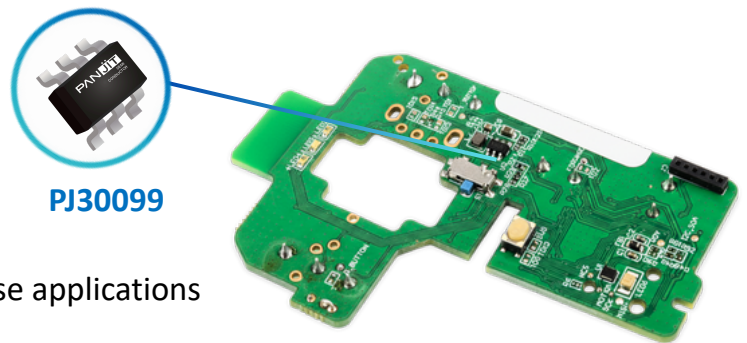
High-Efficiency Boost Converter

PJ30099 | Low-quiescent-current boost for keyboards and mice



► Demo Board Specifications

- UVLO / OVP / OTP / current limit
- Supports USB 2.0 / Bluetooth
- Output: 2.2 V, IO_{UT} max. 20 mA
- Input operating voltage down to 0.75 V
- Designed for single-cell alkaline battery mouse applications



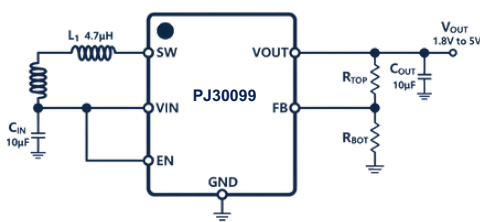
► PJ30099 Target Applications

- Battery-powered applications
 - 1–3 cell alkaline, NiCd, or NiMH
 - 1 cell Li-ion or Li-primary
- Handheld instruments
- GPS receivers
- White or status LED driving
- Solar- or fuel-cell–powered applications
- Consumer and portable medical products

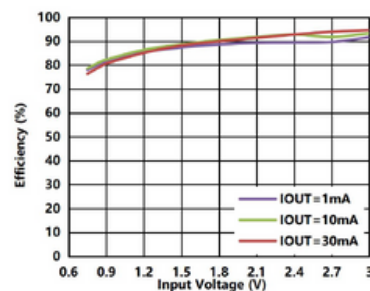
► PJ30099 Key Specifications

Part Number	V _{IN} (V)	I _Q (μA)	V _{OUT} (V)	I _{SD} (μA)	Protection
PJ30099S6	0.75 ~ 5.0 V	<5.5 μA	1.8 ~ 5.0 V	0.2 μA	UVLO / OVP / OTP / CL

Typical Application Circuit of PJ30099



Efficiency vs. Input Voltage (V_{OUT}=3.3 V)



Quiescent current vs. Temperature (V_{OUT}=3.3V)

