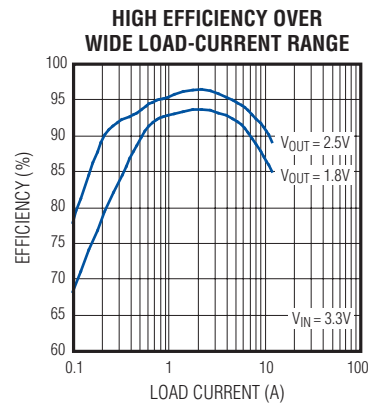
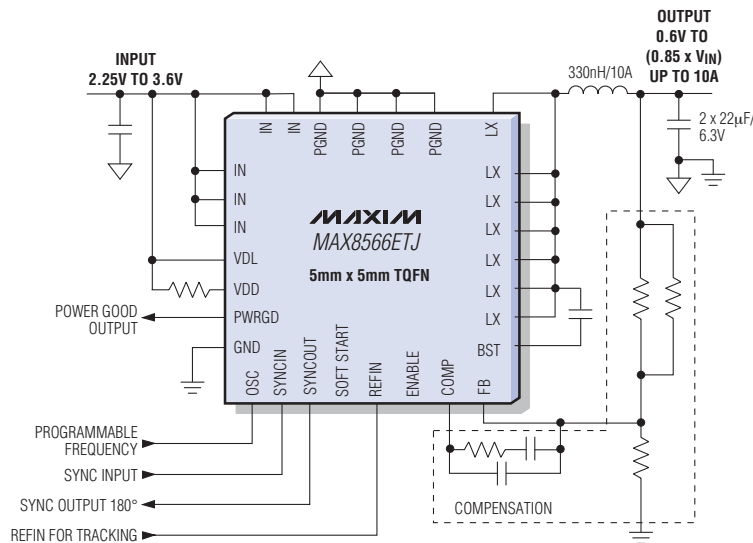


# HIGHEST INTEGRATION, HIGHEST EFFICIENCY, SINGLE-CHIP, 10A STEP-DOWN DC-DC

Up to 96% Efficiency, Up to 2.4MHz Switching, Less than  $0.01\Omega$   $R_{DS(ON)}$ , Small 5mm x 5mm TQFN

The MAX8566 is the most highly-integrated, continuous 10A, step-down DC-DC converter. It features low-resistance internal switches and full overcurrent and thermal protection. Integration makes it easy to use, and its programmable and synchronizable frequency from 250kHz to 2.4MHz makes it versatile. A  $180^\circ$  SYNC output can be used for a second converter with  $180^\circ$  out-of-phase operation, which reduces input capacitance and noise. REFIN can be used when tracking voltages, as in DDR termination applications. PGOOD and ENABLE facilitate sequencing. Its monotonic startup prevents output discharging during soft-start.



## Features

- ◆  $<0.01\Omega$  On-Resistance Switches
- ◆  $\pm 1\%$  Output Voltage Accuracy
- ◆ Soft-Start Reduces In-Rush Supply Current
- ◆ All-Ceramic Capacitor Design
- ◆ 5mm x 5mm, 32-TQFN Package with Exposed Pad

## Applications

- ◆ ASIC/DSP/CPU Core Voltages
- ◆ DDR Termination
- ◆ Memory Power Supply
- ◆ Telecom/Datacomm Power Supply
- ◆ Industrial Power Supply
- ◆ Point-of-Load Power Supply

# MAXIM

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