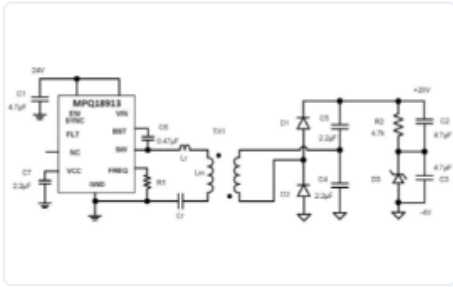


# MPQ18913

30V, 0.3A, High-Frequency, Automotive LLC Transformer Driver for Isolated Power Supplies, AEC-Q100

Pre-Release

 [Datasheet](#)



## Description

The MPQ18913 is a high-frequency, half-bridge transformer driver, designed as a solution for primary-side switchers in isolated power supplies. Its two integrated switching FETS allow the device to support up to 300mA of average input current ( $I_{IN}$ ) across a wide 5V to 30V input voltage ( $V_{IN}$ ) range.

The device features a wide configurable switching frequency ( $f_{SW}$ ) range, which is useful for resonant topologies, such as LLC converters. Full protection features include input over-voltage protection (OVP), over-current protection (OCP), and fault indication. The MPQ18913 also features built-in soft start (SS) to control the inrush current during start-up.

The MPQ18913 is available in a QFN-10 (2mmx2.5mm) package with wettable flanks.

Show less ^

## Features & Benefits

### ✓ High Performance:

- Half-Bridge Transformer Driver for Isolated LLC Resonant Converters
- Configurable Switching Frequency ( $f_{SW}$ ), Up to 5MHz
- Frequency Spread Spectrum (FSS) for Reduced EMI
- Supports Up to 6W of Output Power
- 5V to 30V Input Voltage ( $V_{IN}$ ) Range

### ✓ Robust Design for Automotive Environments:

- -40°C to +150°C Junction Temperature ( $T_J$ ) Range
- Available in a Tiny QFN-10 (2mmx2.5mm) Package
- Available in a Wettable Flank Package to Enable Optical Inspection
- Available in AEC-Q100 Grade 1