



# MCP1012 1W Evaluation Board

Part Number: DT100118

## Summary

The DT100118 is a simple evaluation development tool for the MCP1012 that allows functional evaluation. The MCP1012 is a primary-side controller that starts an off-line Flyback Converter working in conjunction with a Secondary-Side Controller. The Secondary-Side Controller can be a Microchip Digitally-Enhanced Power Analog (DEPA) device, a PIC-based digital controller, or other. The Secondary-Side Controller's PIC resources can be made available and interactive to the Application (load) since being located on the isolated side of the power supply.

## Package Contents

1 x MCP1012 1W Evaluation Board

1 x Jumper-Pin

## Product Features

- High Voltage Start-Up (rated 500V/700V)
- Internal Open-Loop, Peak Current Mode, Current Regulator for Start-Up
- Current Regulator Constant 21  $\mu$ s OFF Time
- Programmable Low Frequency Oscillator (LFO) Period
- Cycle-by-Cycle Current Limiting
- Protection against Continuous Conduction Mode (CCM) of Operation
- Able to Accept External PWM Commands from a Secondary-Side Controller via Isolator (Optocoupler or Pulse Transformer)
- Under-Voltage Lockout (UVLO) and Over-Voltage Lockout (OVLO) Protections
- Sleep and Wake-Up Commands
- Robust Gate Driver, able to drive 2.2 nF Load at 65 kHz
- Overtemperature Protection (Thermal Shutdown)
- Package: 7-Lead SOIC
- Environmentally Friendly, EU RoHS Compliant, Pb-Free