



# MPC1100C-54-0002

## High-Efficiency, Non-Isolated, Fixed Ratio, 300W, Digital DC/DC Power Module

### DESCRIPTION

The MPC1100C-54-0002 is a high-efficiency, non-isolated LLC-DCX power card module with a fixed 10:1 transformer turns ratio. The device operates from a 40V to 60V DC primary bus and a 4V to 6V output voltage. It can deliver up to 300W of power.

The MPC1100C-54-0002 employs MPS's digital controller and synchronous rectifier. These devices can adjust the PWM to optimize the MPC1100C-54-0002, and ensure that the MPC1100C-54-0002 works at the resonant frequency.

The built-in multiple-time programmable (MTP) memory can store and restore device configurations. The fault status, input and output voltage, current, and temperature can be easily monitored via the communication interface.

The MPC1100C-54-0002 is available in a surface-mount (27mmx18mmx6.1mm) package.

### FEATURES

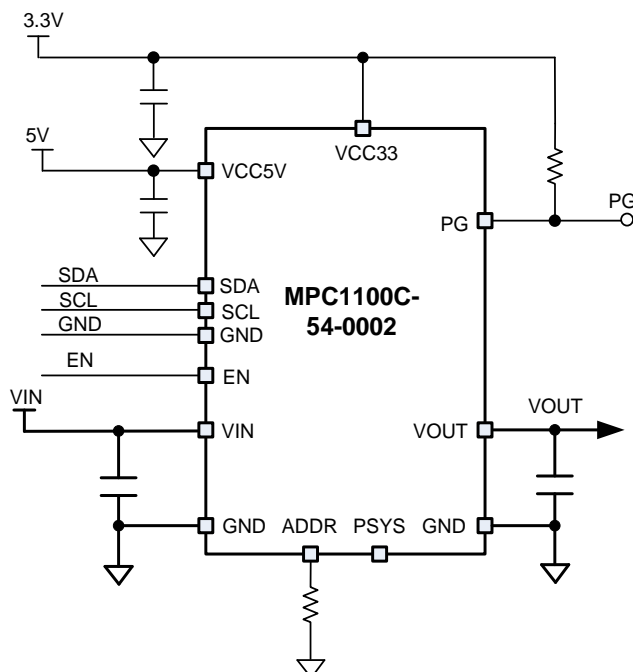
- Up to 60A Continuous Secondary Current
- Built-In MTP to Store Custom Configurations
- Monitoring for Input Voltage, Output Voltage, Output Current, Output Power, and Temperature
- Protections Including  $V_{IN}$  UVLO, Output OVP/UVP, OCP\_TDC, OCP\_SPIKE, and OTP
- Available in a Surface-Mount (27mmx18mmx6.1mm) Package

### APPLICATIONS

- Datacenters
- DC Power Distribution
- High-End Computing Systems

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### TYPICAL APPLICATION



## ORDERING INFORMATION

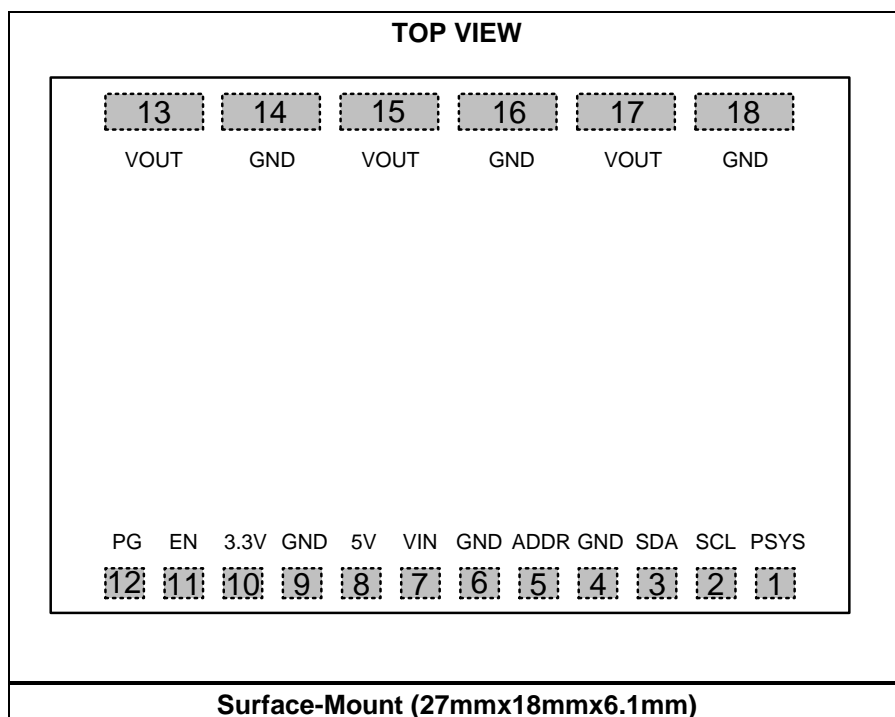
Part Number*	Package	Top Marking	MSL Rating
MPC1100C-54-0002	Surface-Mount	MPC1100C-54	3

\*For Tape & Reel, add suffix -Z (e.g. MPC1100C-54-0002-Z).

## TOP MARKING

Date code  
Vendor's serial number  
LOT ID  
MPC1100C-54

## PACKAGE REFERENCE



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