

Wide Input Voltage Range Automotive Cuk LED Driver Reference Design (35V @ 0.75A)

Status: ACTIVE

PMP6012

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Description

PMP6012 reference design presents the TPS92690Q1 DC-DC controller driving a 18V to 35V string of LEDs at 750mA of current in a Cuk configuration. The Cuk topology features continuous input and output currents which helps reduce EMI and also allows one end of the LED string to connect to common ground allowing for a single wire system.

Technical Documents

User Guides (2)

Title	Abstract	Type	Size (KB)	Date	Views
 TPS92690Q1 Wide Input Voltage Range Automotive Cuk LED Driver Reference Design		PDF	505	20 Feb 2013	148
 PMP6012 Test Results		PDF	477	11 Feb 2013	81

More Literature (2)

Title	Abstract	Type	Size (KB)	Date	Views
 PMP6012 BOM		PDF	13	11 Feb 2013	35
 PMP6012 Schematic		PDF	138	11 Feb 2013	63

Related Products

Software (1)

 [PMP6012 Gerber](#)
(ZIP, 549 KB) 49 views, 11 Feb 2013

TI Devices (1)

Part Number	Name	Product Family
TPS92690	N-Channel Controller for Dimmable LED Drives with Low-Side Current Sense	Power Management

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Training & Events

Name	Type	Available During
In-depth PFC Design Workshop sponsored by Biricha Digital Power	In-Person	15 Mar 2014 - 22 Mar 2014
In-depth PFC Design Workshop	In-Person	12 Nov 2013 - 14 Nov 2013
Digital Power Multi-Day Workshop	In-Person	05 Nov 2013 - 07 Nov 2013
Power Fundamentals: Switching Power Supply Design Considerations - Managing Thermal Performance	Recorded Content	On Demand
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