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12 V @ 1 A Isolated

Flyback Converter for Power-Over- Ethernet PD Applications

PMP2459

Status: PREVIEW



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	PMP2459
Name	12 V @ 1A Isolated Flyback Converter for Power over Ethernet PD

	Applications
Status	PREVIEW
Price (US\$)	

Product Information

Description

The TPS23750 integrates the functionality of the TPS2375 PoE PD controller with a primary-side DC/DC PWM controller. The designer can create a front-end solution for PoE PD applications with a minimum of external components. The PoE front-end has all the necessary IEEE802.3af functions including detection, classification, UVLO and inrush control. The PoE input switch is integrated within the TPS23750. The DC/DC controller section is designed to support flyback, forward and non-synchronous low-side switch-buck topologies.

This circuit uses the TPS23750 to implement an isolated flyback converter. PoE applications such as security cameras require a 12 V rail. Since the input to the PD is limited to 12.95 W by IEEE802.3af, synchronous rectification is used to reduce losses, providing maximum power at the output. The output of this converter can be scaled to provide lower voltages,

such as 3.3 V or 5 V.

What's Included

- [SLUR023,TPS23750PWP Bill of Materials](#)
- [SLUR024,TPS23750PWP Schematic](#)
- [SLUL035,TPS23750PWP Test Report](#)

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Part#	Name	Product Family
TPS23750	IEEE 802.3af PD Controller with Integrated DC/DC	Power Over Ethernet (PoE)/LAN Solutions

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MSP430™ Value Line LaunchPad – A complete and open source development kit for ju LaunchPad is the newest development tool to come out of MSP430’s Value Line.	On-Line Training	On Demand

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