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Texas Instruments - UCC28810EVM-002 - Evaluation Module

Product Overview:

The UCC28810EVM-002 is a constant current non-isolated power supply for LED lighting applications. It will convert universal mains (90 VRMS to 264 VRMS) to a 0.9-A constant current into a 100-W load. This evaluation module will allow the customer evaluate the UCC28810/11 in a typical LED lighting application.



Kit Contents:

• Includes UCC28810EVM-002 board.

Key Features:

- 90 VRMS to 264 VRMS operation
- Boost Follower or Fixed Output PFC Stage
- PFC Disable
- Output Current Disable
- External or Internal PWM Dimming

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N	
UCC28810EVM-002	TI	1824822	25R0175	

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
UCC28810D	TI	LED DRIVER LINEAR 8-SOIC	1755591	50R6957

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UCC28811D	TI	LED LIGHTING POWER CONTROLLER	1689434	19P7480
FMMT560	Diodes INC	TRANSISTOR, PNP	9525114	96K9959
STP6NK50Z	ST Microelectronics	N CHANNEL MOSFET, 500V, 5.6A	NA	37M6953
IRF840APBF	International Rectifier	MOSFET, N, 500V, 8A	8648557	63J7412
HFA08TB60S	International Rectifier	DIODE, SOFT RECOVERY, 8A	9101454	97K1334

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
UCC28810EVM-001	TI	UCC28810 25-W PFC Flyback LED Converter Evaluation	UCC28810	NA	09R6753
		Module			
UCC28810EVM-003	TI	110-W Multiple String LED Driver with Universal Line Input and PFC Evaluation Module	UCC28810	1824823	51R5931

Document List:

Datasheets:

Part Number	Description	Size
UCC28810	LED Lighting Power Controller	1108KB
UCC28811	LED Lighting Power Controller	1108KB
FMMT560	PNP SILICON PLANAR HIGH VOLTAGE TRANSISTOR	481KB
STP6NK50Z	Zener-Protected SuperMESH™ MOSFET	399KB
IRF840APBF	Power MOSFET	113KB
HFA08TB60S	DIODE, SOFT RECOVERY	256KB

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Application Notes:

File Name	Size
Using the UCC28810EVM-00, 25-W PFC Flyback LED Converter (Rev. B)	2026KB
UCC28810EVM-003 110W Multiple String LED Driver with Universal Line Input and PF	667KB
<u>(Rev. A)</u>	
Non-Isolated 240W Offline LED Driver Using UCC28810, and UCC28811	505KB
Isolated 240W Offline LED Driver Reference Design Using UCC28810, UCC28811, and	652KB

Other Resources:

File Name	Size
LED Reference Design Cookbook (Rev. A)	6675KB
Lighting: Multi String LED Driver	-
TV: LCD/Digital	-



