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REF_45W1_ZVS_184EM

45 W power supply using CoolSET™ SiP ICE184EM

Overview

REF_45W1_ZVS_184EM is a 45 W auxiliary power supply reference design based on Infineon's latest CoolSET™ SiP ICE184EM configured in a flyback topology.

Summary of Features

- Universal input 90~264 V_{AC}
- Output 1: 12 V/3.75 A
- Output 2: 15 V/0.15 A
- > 92% full-load efficiency at 230 V_{AC}
- Secondary ENS control LDO at primary side

Benefits

- Multi-output support for IPM gate driver
- Multi-output support for relay and MCU
- Multi-output support for biasing needs
- High efficiency design with SR
- Low standby power consumption
- Ability to turn off LDO at primary side
- High reliability and robust operation

List of Components:



ICE184EM (/cms/en/product/power/ac-dc-power-conversion/ac-dc-integrated-power-stage-

- coolset/coolset-sip/ice184em/)



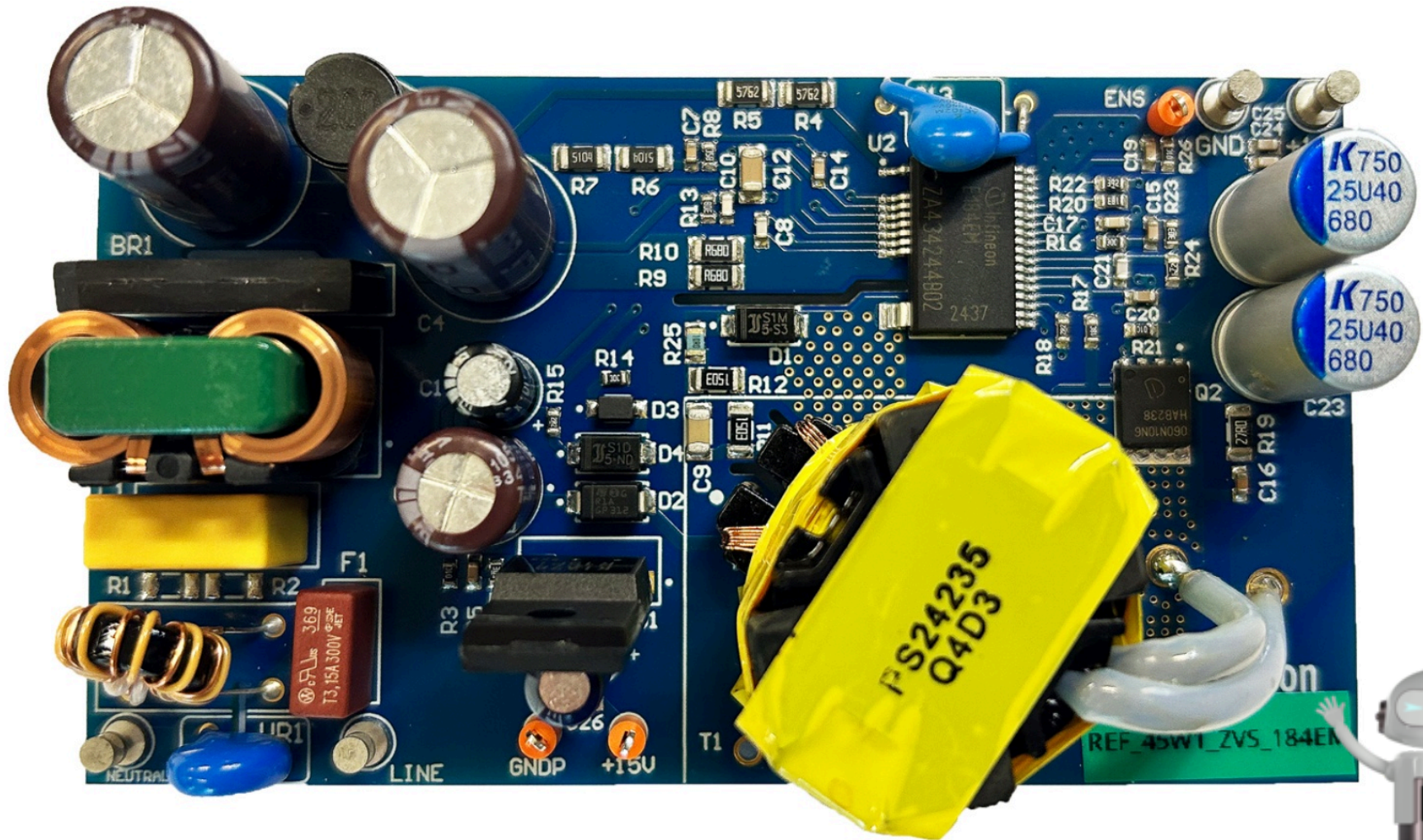
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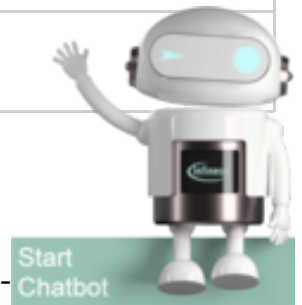


Parametrics

Parametrics	REF_45W1_ZVS_184EM
Board Name	REF_45W1_ZVS_184EM
Configuration	ICE184EM
Family	CoolSET™
Input Type	AC
Output Current max	3.75 A
P _{out} max	45 W
Qualification	Consumer
Supply Voltage min max	90 V 264 V
Target Application	Home Appliances
Topology	Flyback

Documents

> Login (/sec/login?ret=[https%3A%2F%2Fwww.infineon.com%2Fcms%2Fen%2Fproduct%2Fevaluation-boards%2Fref_45w1_zvs_184em%2F%23!documents](https://www.infineon.com/cms/en/product/evaluation-boards/ref_45w1_zvs_184em#documents)) to myInfineon to see all documents available



+ Expand all

+ Application Notes



CoolSET™ SiP 45 W power supply using ICE184EM **NEW** (/dgd/Infineon-CoolSET_SiP_45W_power_supply_using_ICE184EM-ApplicationNotes-v01_00-EN.pdf?fileId=8ac78c8c96250806019680bd6e6f0709)

> EN (/dgd/Infineon-CoolSET_SiP_45W_power_supply_using_ICE184EM-ApplicationNotes-v01_00-EN.pdf?fileId=8ac78c8c96250806019680bd6e6f0709)

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+ Additional Technical Information



Design guide for ZVS QR flyback converter using CoolSET™ SiP **NEW** (/dgd/Infineon-CoolSET_SiP_Design_Guide-AdditionalTechnicalInformation-v01_00-EN.pdf?fileId=8ac78c8c962508060196812218ef0858)

> EN (/dgd/Infineon-CoolSET_SiP_Design_Guide-AdditionalTechnicalInformation-v01_00-EN.pdf?fileId=8ac78c8c962508060196812218ef0858)

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+ Additional Product Information



Important safety and operating instructions (/dgd/Infineon-Board_safety_and_operating_instructions-AdditionalProductInformation-v01_00-EN.pdf?fileId=5546d46270c4f93e0170ee31ec3902dd)

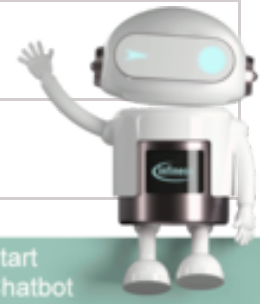
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Sales Product Name	REF_45W1_ZVS_184EM
OPN Info	REF45W1ZVS184EMTOBO2
Product Status	active and preferred
Infineon Package name	--
Standard Package name	
Order online	
Completely lead free	



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Sales Product Name	REF_45W1_ZVS_184EM
Halogen free	
RoHS compliant	
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

Design Support

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