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KIT_ACT_BRD_S7_4PIN

Overview

Active bridge KIT_ACT_BRD_S7_4PIN, Line rectifier module featuring 600 V CoolMOS™ S7

The KIT_ACT_BRD_S7_4PIN aims to replace the standard diode bridge rectifier with an active full-bridge for line rectification in standard CCM boost PFCs. The active-bridge is based on new

CoolMOS™ S7 (/cms/en/product/power/mosfet/n-channel/500v-950v/600v-coolmos-s7/)

22mΩ of $R_{DS(on)}$. The board is equipped with control and driving circuitries integrated in one chip. The board has only 4-pins, thus being pin to pin compatible with the standard diode bridge.

Summary of Features

- Active-bridge daughter card for line rectification
- Integrated control and driving scheme
- Based on 22mΩ CoolMOS™ S7
- Pin to pin compatible with standard diode bridge

Benefits

- Efficiency increases compared to standard bridge solution
- Extremely compact design (almost the same size as that of the standard bridge)
- Lower temperature rises compared to standard bridge solution
- No need for heatsink connection
- No need for bias supply

Potential Applications

- SMPS (/cms/en/applications/solutions/power-supplies/)
- Telecom (/cms/en/applications/communication/telecom-infrastructure/)

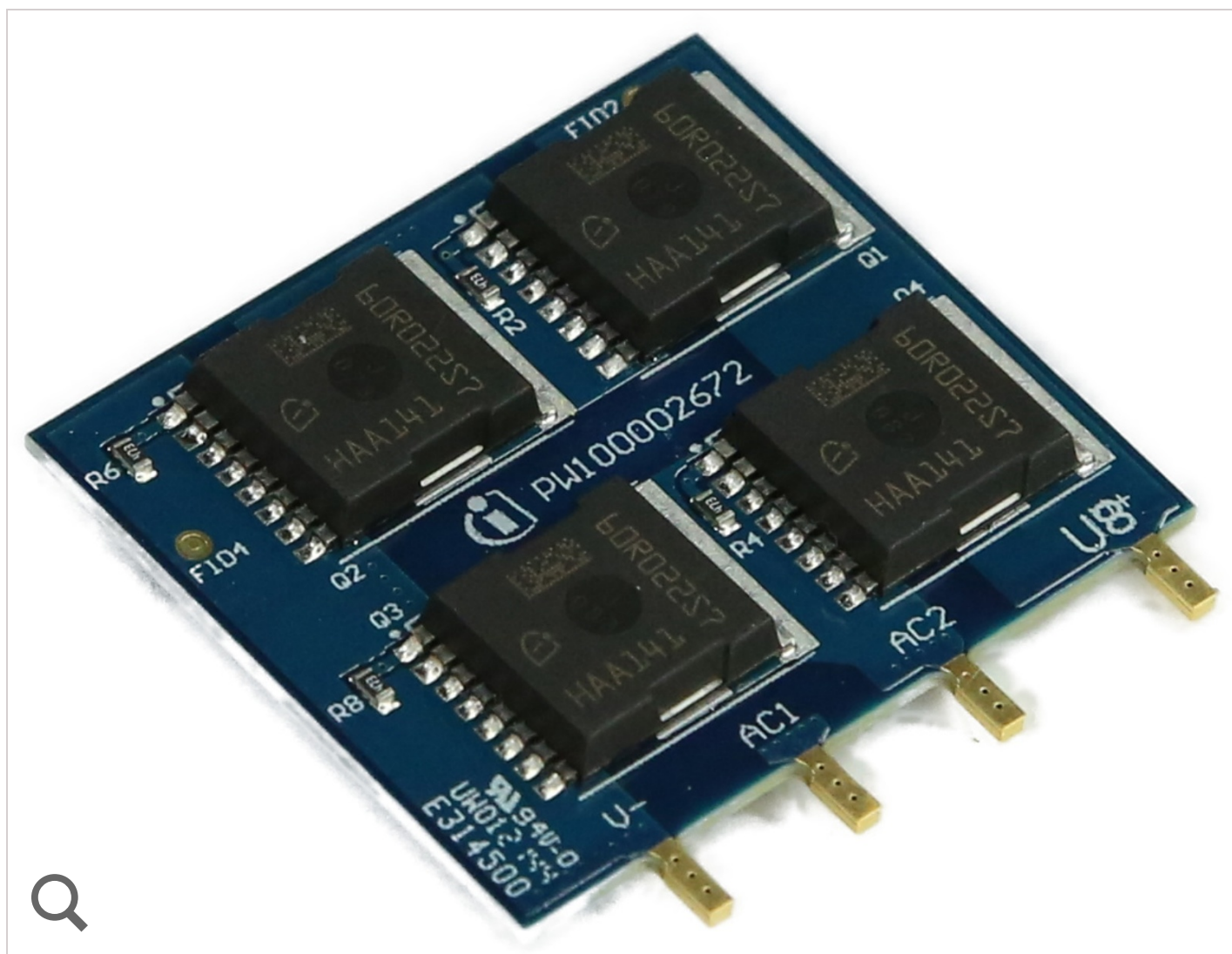


List of Components

- [IPT60R022S7 \(/cms/en/product/power/mosfet/n-channel/500v-950v/ipt60r022s7/\)](/cms/en/product/power/mosfet/n-channel/500v-950v/ipt60r022s7/)



[\(/cms/en/product/promopages/productregistration/?intc=PSS.P.B.2021\)](/cms/en/product/promopages/productregistration/?intc=PSS.P.B.2021)



Parametrics

Parametrics	KIT_ACT_BRD_S7_4PIN
Input Type	AC
Output Voltage min max	325 V 120 V 375 V
P _{out}	2400 W
Product Name	KIT_ACT_BRD_S7_4PIN
Supply Voltage min max	230 V 85 V 265 V
Target Application	SMPS · Telecom



Target Application	SMPS, Telecom
Parametrics	KIT_ACT_BRD_S7_4PIN
Topology	Full Bridge

Documents

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ret=https%3A%2F%2Fwww.infineon.com%2Fcms%2Fen%2Fproduct%2Fevaluation-boards%2Fkit_act_brd_s7_4pin%2F%23!documents)
to myInfineon to see all documents available

+ Expand all

— Data Sheets



IPT60R022S7 (/dgdl/Infineon-IPT60R022S7-DataSheet-v02_01-EN.pdf?fileId=5546d4626bb628d7016bc266c2ec77b5)

> EN (/dgdl/Infineon-IPT60R022S7-DataSheet-v02_01-EN.pdf?fileId=5546d4626bb628d7016bc266c2ec77b5)

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+ Application Notes



Evaluation board KIT_ACT_BRD_S7_4PIN (/dgdl/Infineon-Evaluation_board_KIT_ACT_BRD_S7_4PIN-ApplicationNotes-v01_00-EN.pdf?fileId=8ac78c8c7f2a768a017fac2c5c683f5e)

> EN (/dgdl/Infineon-Evaluation_board_KIT_ACT_BRD_S7_4PIN-ApplicationNotes-v01_00-EN.pdf?fileId=8ac78c8c7f2a768a017fac2c5c683f5e)

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+ Additional Product Information

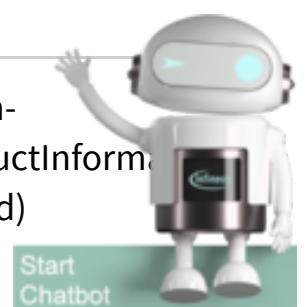


Important safety and operating instructions (/dgdl/Infineon-Board_safety_and_operating_instructions-AdditionalProductInformation-v01_00-EN.pdf?fileId=5546d46270c4f93e0170ee31ec3902dd)


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Order

Sales Product Name	KIT_ACT_BRD_S7_4PIN
OPN  Info	KITACTBRDS74PINTOBO1
Product Status	active and preferred
Infineon Package name	--
Standard Package name	
Order online	
Completely lead free	
Halogen free	
RoHS compliant	no
Packing Size	1
Packing Type	CONTAINER
Moisture Level	
Moisture Packing	NON DRY

Videos

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