

AC INPUT  
90~264VAC  
50/60 Hz



Logo16  
PCB  
LOGO  
CAUTION. READ USER GUIDE BEFORE USE

(X-Cap Discharge)  
XCD Configuration Jumper

XCD DISABLED Position (2-3) =>  
XCD ENABLED Position (2-1) =>

1. Keep XCD DISABLED when operating from DC Input.
2. Do not change jumper position while EVM is energized.

- RECTIFIED AC OUTPUT  
DC INPUT 40~500VDC
1. When using DC Input, remove all AC input voltage and Disable XCD.
  2. When using AC Input, connect + to + and - to - on J2 and J3.
  3. When using AC Input, limit voltage to 264Vac (due to bulk-cap ratings).
  4. After removing input power, wait 5 minutes to allow bulk voltage to discharge.
  5. Discount losses of R33, R34, and R35 from any standby power measurements.

DC OUTPUT  
15V, up to 4A

RATED OUTPUT  
INPUT  
250Vdc~500Vdc: 15V @ 4A Max  
40Vdc~250Vdc: 15V @ 2A Max  
180Vac~264Vac: 15V @ 4A Max  
90Vac~180Vac: 15V @ 2A Max

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Orderable: UCC28781EVM-053	Designed for: Public Release	Mod. Date: 5/13/2022
TID #: N/A	Project Title: 60W 15V HV ZVS-Flyback EVM	
Number: HVP053	Rev: B	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 1 of 2
Drawn By: U. Goerke	File: HVP053B_sheet1.schdoc	Size: B
Engineer: U. Goerke	Contact: http://www.ti.com/support	

PCB Logos and Symbols:

Logo3  
PCB  
LOGO  
Texas Instruments + Symbol

Logo4  
LOGO  
PCB  
FCC disclaimer

Logo5  
PCB  
LOGO  
WEEE logo

Logo6  
  
CE Mark

Logo7  
  
DANGER HIGH VOLTAGE

Logo17  
PCB  
LOGO  
CAUTION. READ USER GUIDE BEFORE USE

LBL1  
PCB Label  
THT-14-423-10  
Size: 0.65" x 0.20 "

Assembly Notes:

ZZ1  
Assembly Note  
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ2  
Assembly Note  
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ3  
Assembly Note  
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

ZZ4  
Assembly Note  
Default installation of XCD configuration jumper SH-J1 to be in "XCD Disabled" position on J5 (across pins 2-3).

PCB Number: HVP053  
PCB Rev: B  
IPC81  
Printed Circuit Board

Logo8  
  
DANGER HIGH VOLTAGE

Logo9  
  
CAUTION HOT SURFACE

Logo12  
  
DANGER HIGH VOLTAGE

Logo14  
  
CAUTION HOT SURFACE

EVM Stand-off Hardware:

H1  
  
1  
NY PMS 440 0025 PH

H2  
  
1  
NY PMS 440 0025 PH

H3  
  
1  
NY PMS 440 0025 PH

H4  
  
1  
NY PMS 440 0025 PH

H5  
  
1902C

H6  
  
1902C

H7  
  
1902C

H8  
  
1902C

Fiducial Marks:  
DNP  
FID1

DNP  
FID2

DNP  
FID3

DNP  
FID4

DNP  
FID5

DNP  
FID6

Logo10  
  
DANGER HIGH VOLTAGE

Logo11  
  
CAUTION HOT SURFACE

Logo13  
  
DANGER HIGH VOLTAGE

Logo15  
PCB  
LOGO  
Texas Instruments + Symbol

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