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# Constant Input Current 400mA Cap Charger

(ACTIVE) PMP5585

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## Description

The PMP5585 is a 70V, 1.3mF capacitor charger that keeps the input current constant to 400mA. The input voltage range is 6V to 15V.

TI's [Standard Terms and Conditions for Evaluation Modules](#) apply.

## Bill of Materials (BOM)

Find the complete list of components in this reference design.

[Download BOM](#)

## Parametrics

|                       | PMP5585         |
|-----------------------|-----------------|
| Vin (Min) (V)         | 6               |
| Vin (Max) (V)         | 15              |
| Vout (Nom) (V)        | 70              |
| Iout (Max) (A)        | .05             |
| Output Power          | 3.5             |
| Isolated/Non-Isolated | Non-Isolated    |
| Input Type            | DC              |
| Topology              | Boost- Non Sync |

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|--------------------------|------------------------------------------------------------|------------------------------|----------------------------------|-----------------------------------------------------------|
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| <a href="#">TPS40210</a> | Wide Input Range Current Mode Boost Controller             | Controller (External Switch) | <a href="#">Sample &amp; Buy</a> | <a href="#">View Design Kits &amp; Evaluation Modules</a> |

## CAD/CAE symbols

| Part #                   | Package   Pins                    | CAD File (.bxl)          | STEP Model (.stp)        |
|--------------------------|-----------------------------------|--------------------------|--------------------------|
| <a href="#">INA271</a>   | <a href="#">SOIC (D)</a>   8      | <a href="#">Download</a> | <a href="#">Download</a> |
| <a href="#">TPS40210</a> | <a href="#">HVSSOP (DGQ)</a>   10 | <a href="#">Download</a> | <a href="#">Download</a> |
|                          | <a href="#">VSON (DRC)</a>   10   | <a href="#">Download</a> | -                        |

Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

**Step 1:** Download and install the Ultra Librarian software [ZIP: 62MB](#)

**Step 2:** Download the Symbol and Footprint .bxl file.

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## Technical Documents

## User Guides (1)

| Title                                | Abstract | Type | Size (KB) | Date        | Views |
|--------------------------------------|----------|------|-----------|-------------|-------|
| <a href="#">PMP5585 Test Results</a> |          | PDF  | 1396      | 24 Oct 2011 | 24    |

## Design Files (2)

| Title                             | Abstract | Type | Size (KB) | Date        | Views |
|-----------------------------------|----------|------|-----------|-------------|-------|
| <a href="#">PMP5585 BOM</a>       |          | PDF  | 30        | 24 Oct 2011 | 24    |
| <a href="#">PMP5585 Schematic</a> |          | PDF  | 73        | 24 Oct 2011 | 52    |

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