Note: 4th ADC channel not used in design
Engineer: Mekre Mesganaw

Contact: Mekre Mesganaw

Number: 10V

Sheet: 3

Size: B

Assembly Variant: PIC802

Mod. Date: 10/27/2018

Project Title: 1-phase shunt e-meter reference design using standalone ADCs

Designed for: Texas Instruments

Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.
Isolated RS232 and RS485 and Isolated Pulses

Act / React Pulses Isolation

RS232 Communication

RS485 Communication

Printed Circuit Board Assembly

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Voltage and Current Front End Circuitry

R30 and R37 can be replaced with inductors

330k
R30
330k
R31
330k
R32
750
R35

Shunt Channel
CT Channel
R34

B72220S0511K101
1-phase shunt e-meter reference design using standalone ADCs

Project Title:  Designed for: Public Release

Assembly Variant: 001

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Variant/Label Table

<table>
<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Default Variant</td>
</tr>
</tbody>
</table>

Assembly Notes:

ZZ1

Not applicable unless PCB labels only

ZZ2

Assembly Note

These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3

Assembly Note

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

ZZ4

Assembly Note

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