Peak Input Current
Current limit = 0.075V/0.01ohm = 7.5A
Inrush limiting T=4700F*12.6V/11A=5.4ms
Circuit breaker = 0.180V/0.01ohm = 16A

Inrush Limiting
T=4700F*12.6V/11A=5.4ms
Check MOSFET SOA curve
good for 10V, 20A, 10ms

Snubber Power Dissipation
P=1/2*C*(Vp^2+Vn^2)*fsw
Where Vp and Vn are the positive and negative voltage spikes across the snubber resistor.

Use Vp=Vn=in as initial approximation.
P=4650F*12.6V^2/450kHz=46.5mW

Circuit breaker = 0.160V/0.01ohm = 16A
Current limit = 0.075V/0.01ohm = 7.5A

Use 50 ohm termination for coax measurement connections, divide by 2 scale factor.
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Label Table

<table>
<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>ChangeMe!</td>
</tr>
<tr>
<td>002</td>
<td>ChangeMe!</td>
</tr>
</tbody>
</table>

Assembly Note

ZZ1
- This Assembly Note is for PCB labels only.

ZZ2
- These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
- These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4
- These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

PCB Number: PMP9372
PCB Rev: A

LOGO

PCB Number: PMP9372
PCB Rev: A

Sheet Title:

Size:

Mod. Date:

File:

Sheet:

http://www.ti.com

Contact:

http://www.ti.com/support

LM5121 Boost

Project Title:

Designed for:

Public Release

Assembly Variant:

[No Variations]

http://www.ti.com

2014

Drawn By:

Engineer:

Robert Sheehan

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PCB Label

Variant Label Text

5/30/14

1

2

3

4

D D

C C

B B

A A

Hardware

4/24/2014

PMP9372_REVA1_Sh2.SchDoc

Sheet...
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