

Wide input range 1:3

## INDUSTRIAL DC/DC Converters Step Up

Stand: 18/01

**20 - 30 Watt**  
from 5Vin ~30W  
**Series: TSU3**

### Electrical specifications:

Input voltage: 3 - 9V  
Output voltage accuracy: +/- 2%  
Line regulation: +/- 1%  
Load regulation: +/- 3%  
Efficiency: 73 - 85%

Ambient temperature: -40°C to +71°C  
Operating temperature: max. +95°C  
Insulation voltage: none  
Short circuit protection: 5 sec.

no undervoltage lockout  
therefor 12A slow fuse recommended

**CAUTION: NO INPUT POLARITY CHANGE ALLOWED!**

| Part-No.  | Input voltage   | NO<br>ISOLATION | Output voltage                          | Output current |
|-----------|-----------------|-----------------|-----------------------------------------|----------------|
| TSU3-0512 | 5V<br>( 3 - 9 ) |                 | 12V<br><br>Other voltages<br>on request | 1,6-2,5 A      |

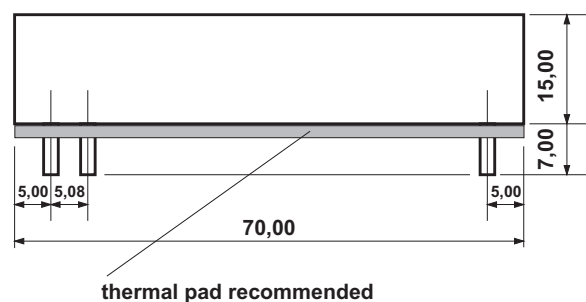
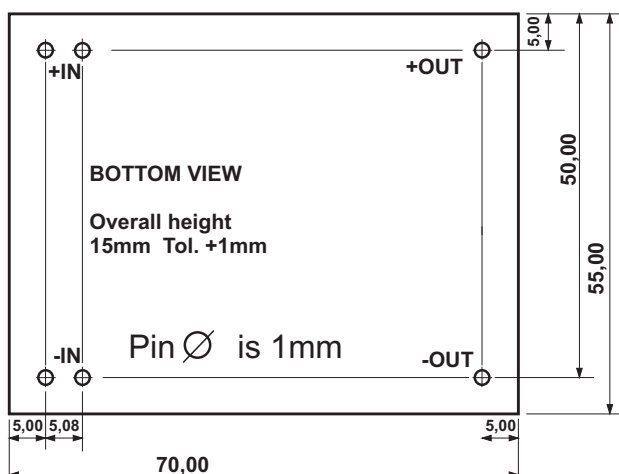
Any other output voltages available

### Important

Input capacitor 20x Elcos with 470µF/10V +150°C  
Output capacitor 5x Elcos with 330µF/16V +105°C  
is a must.

Input R&N <300mV

max. permissible input ripple current without any other external input caps 1,5A  
converter can be tested for a short time without input / output capacitor



ALL DIMENSIONS IN MM  
Tolerance +/- 0,5mm

Specification may be changed without notice  
please contact office for verification

We can offer EMC - Filter  
according to EN55011/22 Class B.