



# TCP7

## SMD current transformers

**SURFACE  
MOUNTING**

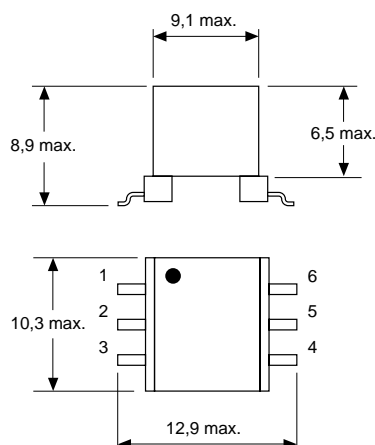


TCP7 transformer is designed for AC current measurement for frequencies from 20 kHz to 200 kHz with complete isolation of circuits.

Main applications: DC/DC converter, switching power supplies or any electronic device.

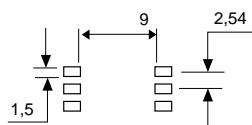
Tape and reel packaging allows automatic pick and place.

### DIMENSIONS

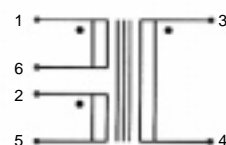


Dimensions in mm

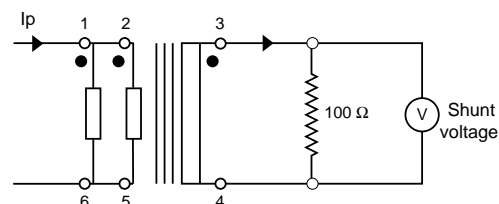
### RECOMMENDED SOLDERING PAD



### ELECTRICAL DIAGRAM



### TYPICAL APPLICATION



## SPECIFICATIONS

### MECHANICAL

FERRITE... EP7  
CASE... SMD shell  
CONFIGURATION... 6 pins  
UNIT WEIGHT... 2 g

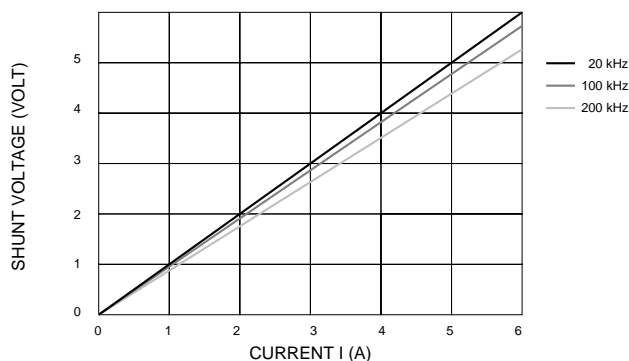
### CLIMATIC

WORKING TEMPERATURE  
RANGE... -20°C +85°C

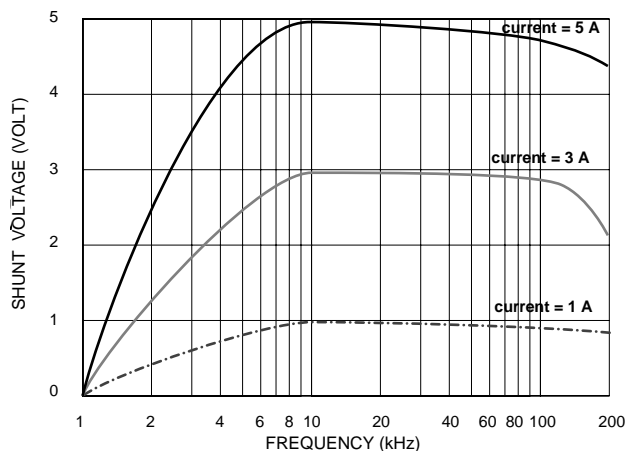
### ELECTRICAL

FREQUENCY RANGE... 20 kHz to 200 kHz  
DIELECTRIC STRENGTH... 1500 V RMS  
PRIMARY RESISTANCE  
1 - 6 // 2 - 5 max.... 10 mΩ  
SECONDARY RESISTANCE 3 - 4 max.... 4,2 Ω  
MAXIMUM PRIMARY CURRENT... 5 A  
on 100 Ω load to add to the circuit  
PRIMARY PEAK CURRENT... 15 A

### CURRENT VERSUS VOLTAGE



### FREQUENCY VERSUS VOLTAGE



### ORDERING PROCEDURE

SERIES

**TCP7**

### MARKING

Printed in clear: manufacturer, series, manufacturing date (code), pin 1.

### PACKAGING

250 pieces tape and reel.



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