



TCV14

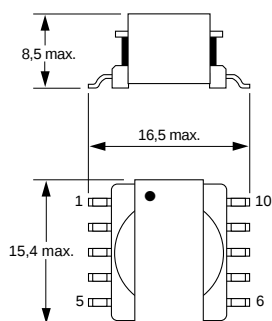
microconverter transformers

SURFACE MOUNTING

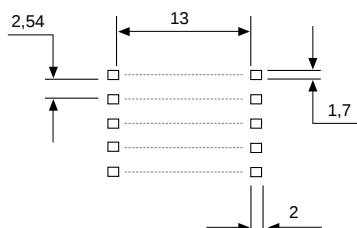


Adding up one or more secondary to the basic inductor TCV14 allow build up of flyback transformers for microconverters with a power of 11 W. Tape and reel packaging allows automatic pick and place.

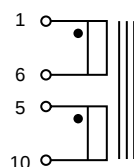
DIMENSIONS



RECOMMENDED SOLDERING PAD

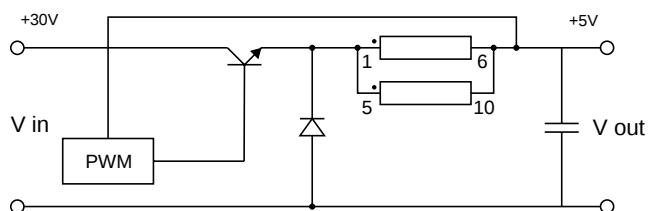


ELECTRICAL DIAGRAM

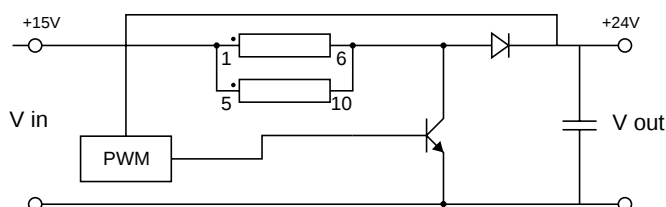


TYPICAL APPLICATIONS

Step down



Step up



Dimensions in mm

SPECIFICATIONS

MECHANICAL

FERRITE... ER14
CASE... SMD frame
CONFIGURATION... 10 pins 2,54 mm pitch

CLIMATIC

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

MARKING

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

PACKING

300 pieces / reel.
Taped 32 mm width, 20 mm pitch.

ORDERING PROCEDURE

SERIES

TCV14

VALUE

100 µH

ELECTRICAL

INSULATION VOLTAGE BETWEEN WINDING...100 V RMS
RATIO (1-6) / (5-10)...1 / 1
QUENCH FREQUENCY MAX.... 200 kHz

ELECTRICAL VALUES (1-6) // (5-10) :

Inductance (µH) ± 20 %	Rcc max. (Ω)	Saturation * current (A)	Nominal ** current (A)
10	0,028	2,9	6,9
22	0,072	2,2	3,8
47	0,112	1,9	3,5
68	0,168	1,6	2,6
100	0,254	1,4	2,1
220	0,490	0,9	1,5
470	1,086	0,7	0,9
680	1,920	0,6	0,7
1000	2,400	0,5	0,6

* DC current which create a 20% loss of inductance value

** DC current which will create a maximum temperature rise of 30°C when applied at 25°C ambient.



VISHAY S.A.
Division Aztronic
Z.I. de Bellitourne
B.P. 353
F 53203 Château-Gontier Cedex
Tel. : (33) 02 43 09 51 10
Fax. : (33) 02 43 07 36 43