



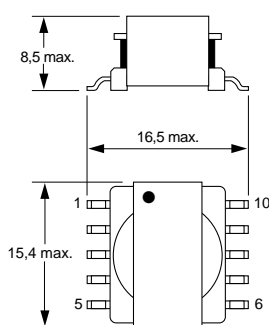
TCV14U1 microconverter transformers

SURFACE MOUNTING



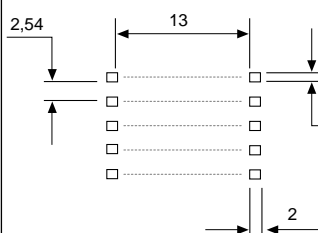
TCV14 transformers are designed for 11 W flyback microconverters. They are compatible with standard PWM circuits. High frequency capability and SMD design offers an excellent power / volume ratio. Tape and reel packaging allows automatic pick and place.

DIMENSIONS

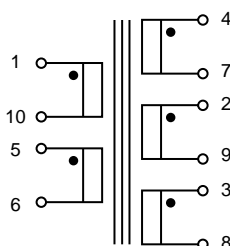


Dimensions in mm

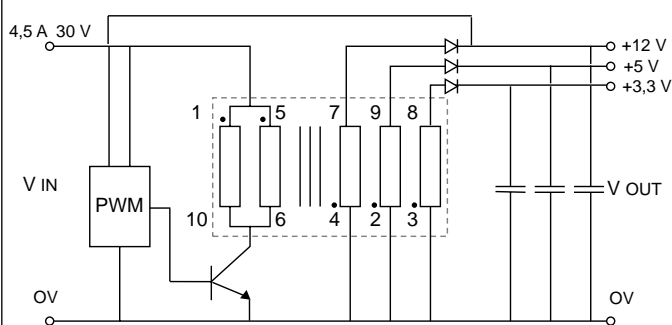
RECOMMENDED SOLDERING PAD



ELECTRICAL DIAGRAM



TYPICAL APPLICATION



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, application code, manufacturing date (code), pin 1.

PACKING

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

ORDERING PROCEDURE

SERIES

TCV14

APPLICATION CODE

U1

ELECTRICAL

MAX. PRIMARY RESISTANCE (1-10 // 5-6)... 0,1 Ω
PRIMARY INDUCTANCE (1-10 // 5-6)... 14 $\mu\text{H} \pm 20\%$
MAX. PRIMARY DC CURRENT... 1,8 A
PRIMARY PEAK CURRENT... 2,4 A
DIELECTRIC STRENGTH (1-10 / 5-6) / (9-2 / 8-3 / 7-4)... 500 V DC
QUENCH MAX. FREQUENCY... 200 kHz
MAX. POWER... 11 W
MAX. LEAKAGE INDUCTANCE... 200 nH
PARASITIC CAPACITANCE P/S... 50 pF

Winding	(2-9)	(3-8)	(4-7)
Typical output voltage	+ 5 V	+ 3,3 V	+ 12 V
Max. current output	1 A	1 A	0,25 A
Max. resistance	0,06 Ω	0,04 Ω	0,500 Ω
Ratio versus 1-10 // 5-6	1	0,647	2,412



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