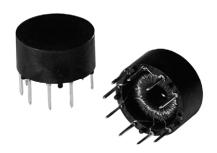


www.vishay.com

Vishay Dale

Through Hole Transformers Converter



FEATURES

· Designed especially for low-power solid state



Designed for mounting on printed circuit boards RoHS

- Miniature size for minimum space
- · High conversion efficiency from DC input to filtered DC output
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

Power supply for gas discharge display, battery-operated portable instruments, operational amplifier power supplies

MECHANICAL SPECIFICATIONS

Coil: secured to bottom of case with epoxy Terminals: 0.025" [0.635 mm] square, solder plated

OPERATING TEMPERATURE RANGE

-20 °C to +80 °C. Intended for use in enclosed commercial and industrial applications

ELECTRICAL SPECIFICATIONS

Transformer power rating: 3 W

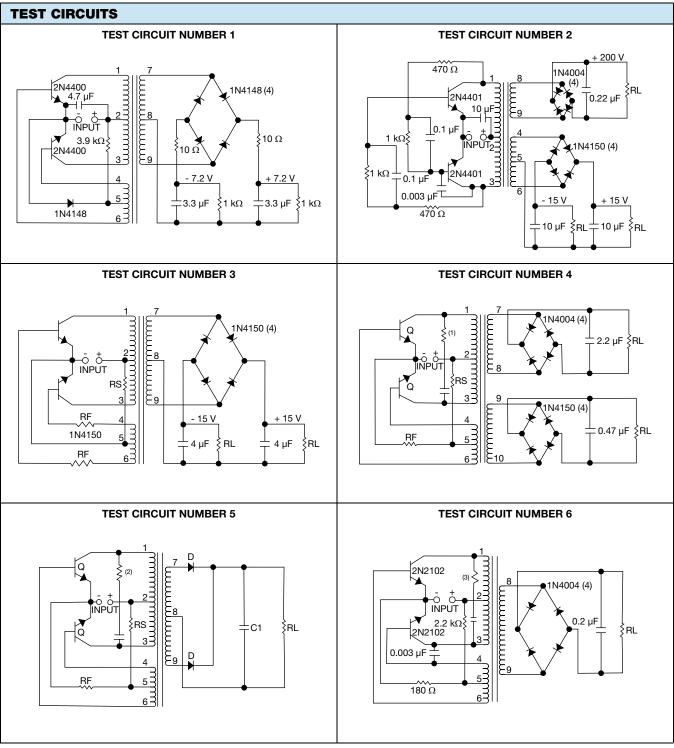
Isolation, primary - secondary: 500 V, 60 Hz. Operating characteristics may be varied to suit specific applications by appropriate selection of circuit components

STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	INPUT (V _{DC})	ОИТРИТ	FREQUENCY REFERENCE (kHz)	CIRCUIT EFFECTIVE	TEST CIRCUIT	SCHEMATIC NUMBER		
TC-10-01B	3.6	+ $7.2 \pm 0.2 V_{DC}$ at 150 MW	7.5	50 %	1	1		
		- 7.2 \pm 0.2 V_{DC} at 150 MW						
TC-10-02B	5	200 \pm 10 V_{DC} at 250 MW	11	50 %	2 (1)	4		
TC-10-03B	5	200 \pm 10 V_{DC} at 250 MW	11	60 %	2	2		
		+ 15 \pm 0.4 V _{DC} at 125 MW						
		- 15 ± 0.4 V _{DC} at 125 MW						
TC-10-04B	5	+ 15 ± 0.4 V _{DC} at 500 MW	8	75 %	3	1		
		- 15 \pm 0.4 V _{DC} at 500 MW						
TC-10-05B	5	+ 170 \pm 5.1 V_{DC} at 850 MW	11	75 %	4	5		
		+ 32 ± 1.0 V _{DC} at 510 MW						
TC-10-06B	5	+ 35 ± 1.0 V _{DC} at 610 MW	11	70 %	4 (1)	5 ⁽¹⁾		
TC-10-07B	7.5	16.3 ± 0.4 V _{DC} at 330 MW	7	65 %	5	1		
TC-10-08B	12	± 15 ± 0.4 V _{DC} at 1 W	7.5	72 %	3	1		
TC-10-09B	12	160 ± 5 V _{DC} at 1.5 W	10	75 %	6	3		
TC-10-10B	12	14.2 ± 0.7 V _{DC} at 3 W	10	70 %	5	1		
TC-10-11B	12	+ 24 ± 0.5 V _{DC} at 2 W	10	80 %	5	1		
TO 10 105	24	170 ± 5.1 V _{DC} at 850 MW	11	70 %	4	5		
TC-10-12B		$32 \pm 1.0 \text{ V}_{DC}$ at 510 MW						

Note

⁽¹⁾ Specifications relate to transformer when operated in applicable test circuit and at specified load power.

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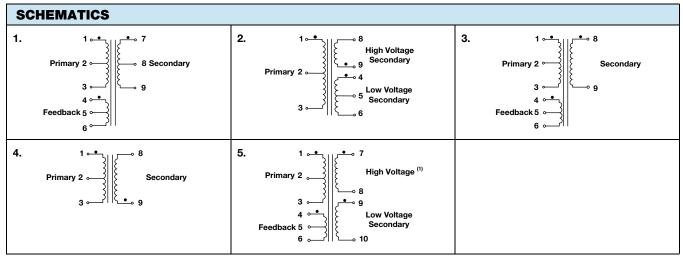
Notes

- Omit winding 4, 5, 6 and associated circuit to test TC-10-028.
- Omit winding 7, 8 and associated circuit to test TC-10-068.
- (1) RC network may be required to suppress spurious oscillations. R = 100 Ω , C = 0.001 μ F.
- (2) RC network may be required to suppress spurious oscillations.
- (3) RC network may be required to suppress spurious oscillations. R = 10 Ω , C = 0.004 μ F.



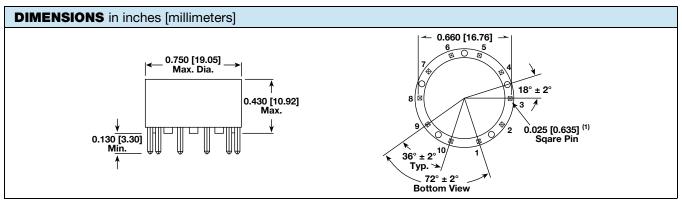
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Note

(1) Omit high voltage winding for TC-10-06.

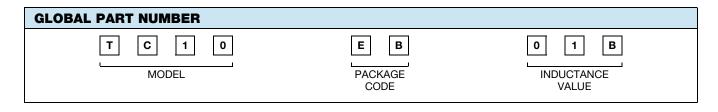


Note

(1) Shows typical pin spacing, pin 10 is omitted on all models except -05, -06, -12.

PART MARKING - Model - Date code

ORDERING INFORMATION							
TC-10	-01B	ЕВ	e2				
MODEL	DASH NUMBER	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				





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