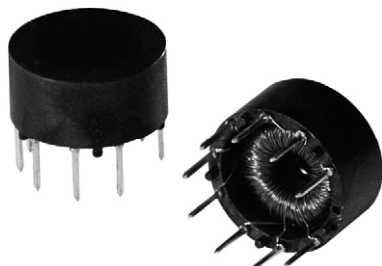


Through Hole Transformers Converter


RoHS
COMPLIANT

FEATURES

- Designed especially for low-power solid state circuits
- Designed for mounting on printed circuit boards
- 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

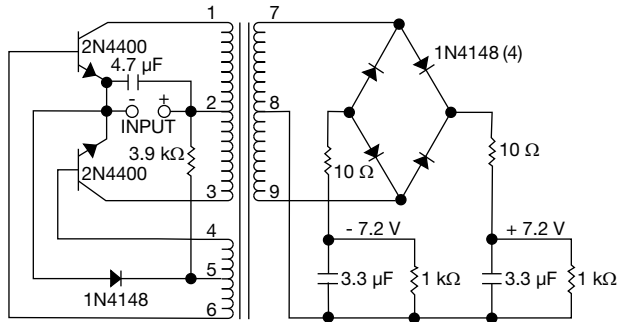
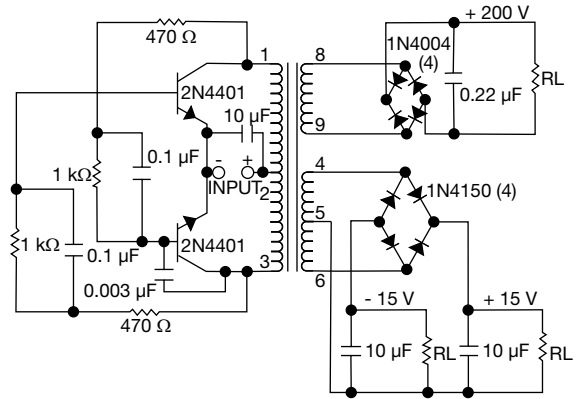
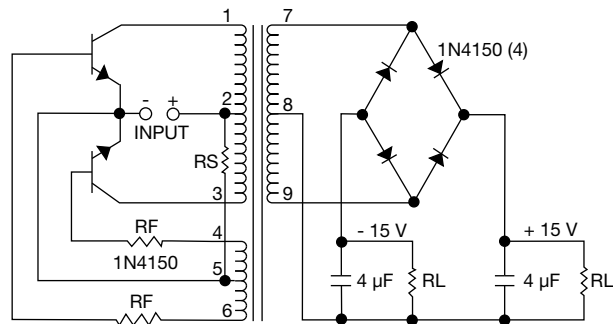
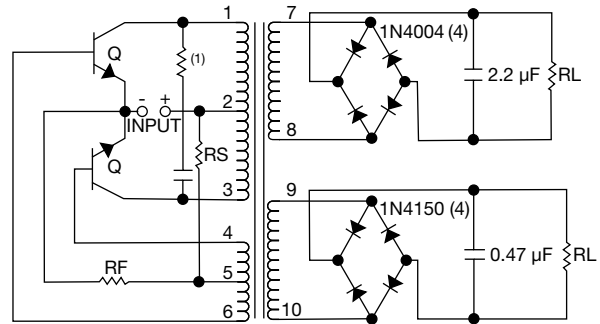
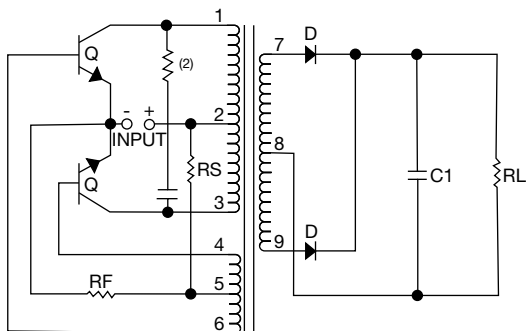
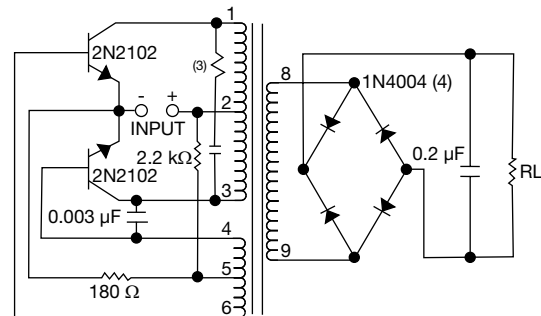
Transformer power rating: 3 W

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})	OUTPUT	FREQUENCY REFERENCE (kHz)	CIRCUIT EFFECTIVE	TEST CIRCUIT	SCHEMATIC NUMBER
TC-10-01B	3.6	+ 7.2 ± 0.2 V _{DC} at 150 MW	7.5	50 %	1	1
		- 7.2 ± 0.2 V _{DC} at 150 MW				
TC-10-02B	5	200 ± 10 V _{DC} at 250 MW	11	50 %	2 ⁽¹⁾	4
TC-10-03B	5	200 ± 10 V _{DC} at 250 MW	11	60 %	2	2
		+ 15 ± 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 ± 0.4 V _{DC} at 500 MW				
TC-10-05B	5	+ 170 ± 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
TC-10-12B	24	170 ± 5.1 V _{DC} at 850 MW	11	70 %	4	5
		32 ± 1.0 V _{DC} at 510 MW				

Note

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

TEST CIRCUITS
TEST CIRCUIT NUMBER 1

TEST CIRCUIT NUMBER 2

TEST CIRCUIT NUMBER 3

TEST CIRCUIT NUMBER 4

TEST CIRCUIT NUMBER 5

TEST CIRCUIT NUMBER 6

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 μF.
- (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 μF.

SCHEMATICS		
<p>1.</p>	<p>2.</p>	<p>3.</p>
<p>4.</p>	<p>5.</p>	

Note

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

DIMENSIONS in inches [millimeters]

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	EB	e2
MODEL	DASH NUMBER	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER											
<table border="1"> <tr> <td>T</td> <td>C</td> <td>1</td> <td>0</td> </tr> </table> <p>MODEL</p>	T	C	1	0	<table border="1"> <tr> <td>E</td> <td>B</td> </tr> </table> <p>PACKAGE CODE</p>	E	B	<table border="1"> <tr> <td>0</td> <td>1</td> <td>B</td> </tr> </table> <p>INDUCTANCE VALUE</p>	0	1	B
T	C	1	0								
E	B										
0	1	B									



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