TC

Vishay Dale

Transformers
Converter

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.

APPLICATIONS

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

ELECTRICAL SPECIFICATIONS

Transformer Power Rating: 3 watt.

Isolation, Primary-Secondary: 500V 60Hz. Operating characteristics may be varied to suit specific applications by appropriate selection of circuit components.
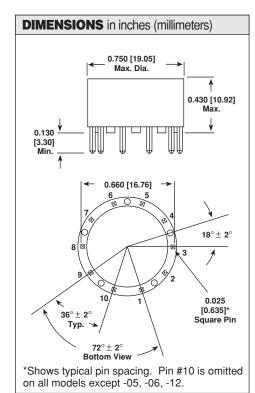
OPERATING TEMPERATURE RANGE:

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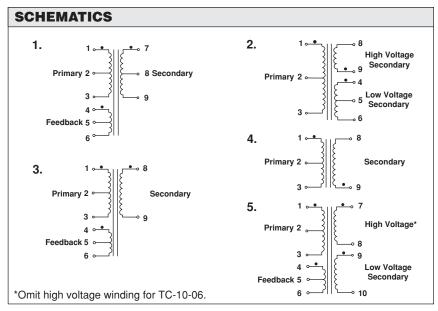
MECHANICAL SPECIFICATIONS

Coil: Secured to bottom of case with epoxy.

Terminals: 0.025" [0.635mm] square, solder plated.

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	INPUT	OUTPUT	FREQ. REF. (kHz)	CIRCUIT EFF.	TEST CIRCUIT	SCHEMATIC NUMBER
TC-10-01B	3.6 VDC	+ 7.2 ± .2 VDC at 150 MW - 7.2 ± .2 VDC at 150 MW	7.5	50%	1	1
TC-10-02B	5 VDC	200 ± 10 VDC at 250 MW	11	50%	2*	4
TC-10-03B	5 VDC	200 ± 10 VDC at 250 MW + 15 ± .4 VDC at 125 MW - 15 ± .4 VDC at 125 MW	11	60%	2	2
TC-10-04B	5 VDC	+ 15 ± .4 VDC at 500 MW - 15 ± .4 VDC at 500 MW	8	75%	3	1
TC-10-05B	5 VDC	+ 170 ± 5.1 VDC at 850 MW + 32 ± 1.0 VDC at 510 MW	11	75%	4	5
TC-10-06B	5 VDC	+ 35 ± 1.0 VDC at 610 MW	11	70%	4*	5*
TC-10-07B	7.5 VDC	16.3 ± .4 VDC at 330 MW	7	65%	5	1
TC-10-08B	12 VDC	± 15 ± .4 VDC at 1 W	7.5	72%	3	1
TC-10-09B	12 VDC	160 ± 5 VDC at 1.5 W	10	75%	6	3
TC-10-10B	12 VDC	14.2 ± .7 VDC at 3 W	10	70%	5	1
TC-10-11B	12 VDC	+ 24 ± .5 VDC at 2 W	10	80%	5	1
TC-10-12B	24 VDC	170 ± 5.1 VDC at 850 MW 32 ± 1.0 VDC at 510 MW	11	70%	4	5

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

DIMENSIONS in inches (millimeters)

*Shows typical pin spacing. Pin #10 is omitted on all models except -05, -06, -12.

SCHEMATICS

*Omit high voltage winding for TC-10-06.

PART MARKING

— Model
— Date code

ORDERING INFORMATION

TC-10	-01B
MODEL	DASH NUMBER

For technical questions, contact: Magnetics@vishay.com