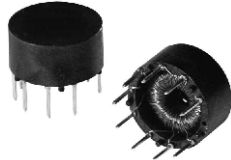


# Through Hole Transformers Converter



## 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
- Compliant to RoHS directive 2002/95/EC



RoHS COMPLIANT

## APPLICATIONS

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

## 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.

## OPERATING TEMPERATURE RANGE:

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

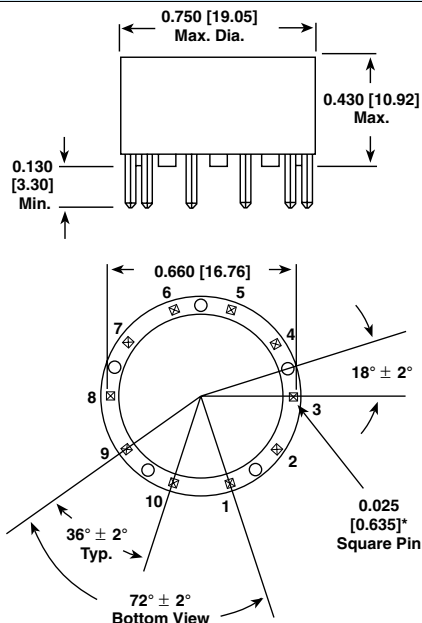
## MECHANICAL SPECIFICATIONS

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

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	INPUT	OUTPUT	FREQ. REF. (kHz)	CIRCUIT EFF.	TEST CIRCUIT	SCHEMATIC NUMBER
TC-10-01B	3.6 V <sub>DC</sub>	+ 7.2 ± 0.2 V <sub>DC</sub> at 150 MW - 7.2 ± 0.2 V <sub>DC</sub> at 150 MW	7.5	50 %	1	1
TC-10-02B	5 V <sub>DC</sub>	200 ± 10 V <sub>DC</sub> at 250 MW	11	50 %	2*	4
TC-10-03B	5 V <sub>DC</sub>	200 ± 10 V <sub>DC</sub> at 250 MW + 15 ± 0.4 V <sub>DC</sub> at 125 MW - 15 ± 0.4 V <sub>DC</sub> at 125 MW	11	60 %	2	2
TC-10-04B	5 V <sub>DC</sub>	+ 15 ± 0.4 V <sub>DC</sub> at 500 MW - 15 ± 0.4 V <sub>DC</sub> at 500 MW	8	75 %	3	1
TC-10-05B	5 V <sub>DC</sub>	+ 170 ± 5.1 V <sub>DC</sub> at 850 MW + 32 ± 1.0 V <sub>DC</sub> at 510 MW	11	75 %	4	5
TC-10-06B	5 V <sub>DC</sub>	+ 35 ± 1.0 V <sub>DC</sub> at 610 MW	11	70 %	4*	5*
TC-10-07B	7.5 V <sub>DC</sub>	16.3 ± 0.4 V <sub>DC</sub> at 330 MW	7	65 %	5	1
TC-10-08B	12 V <sub>DC</sub>	± 15 ± 0.4 V <sub>DC</sub> at 1 W	7.5	72 %	3	1
TC-10-09B	12 V <sub>DC</sub>	160 ± 5 V <sub>DC</sub> at 1.5 W	10	75 %	6	3
TC-10-10B	12 V <sub>DC</sub>	14.2 ± 0.7 V <sub>DC</sub> at 3 W	10	70 %	5	1
TC-10-11B	12 V <sub>DC</sub>	+ 24 ± 0.5 V <sub>DC</sub> at 2 W	10	80 %	5	1
TC-10-12B	24 V <sub>DC</sub>	170 ± 5.1 V <sub>DC</sub> at 850 MW 32 ± 1.0 V <sub>DC</sub> at 510 MW	11	70 %	4	5

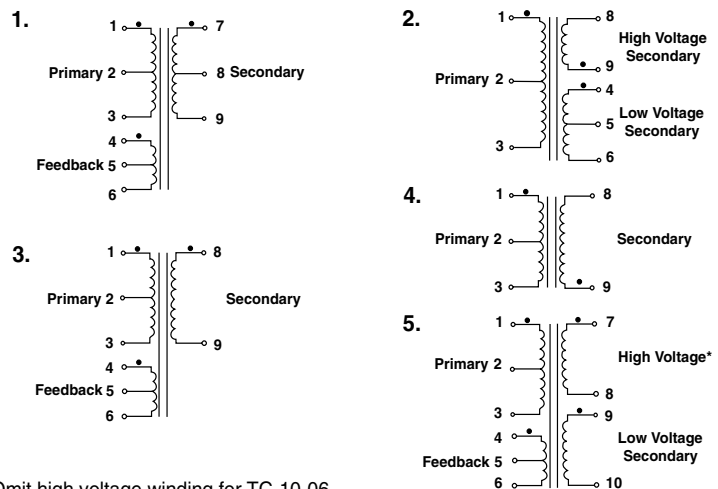
\* Specifications relate to transformer when operated in applicable test circuit and at specified load power.

## 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

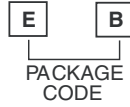
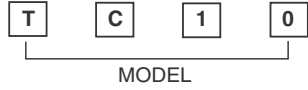
- Model - Date code



**ORDERING INFORMATION**

<b>TC-10</b> MODEL	<b>-01B</b> DASH NUMBER	<b>EB</b> PACKAGE CODE	<b>e2</b> JEDEC LEAD (Pb)-FREE STANDARD
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**GLOBAL PART NUMBER**





## Disclaimer

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