

### TY - 250 P

#### Description:

This transformer operates in the 20 Hz to 20,000 Hz range, making it suitable for a broad application spectrum in the audio industry. This device is used in line matching, telephone coupling, pulse trigger, driver, interstage, and isolation input and output applications.

**Operating Temperature Range:** -40° C to 105° C

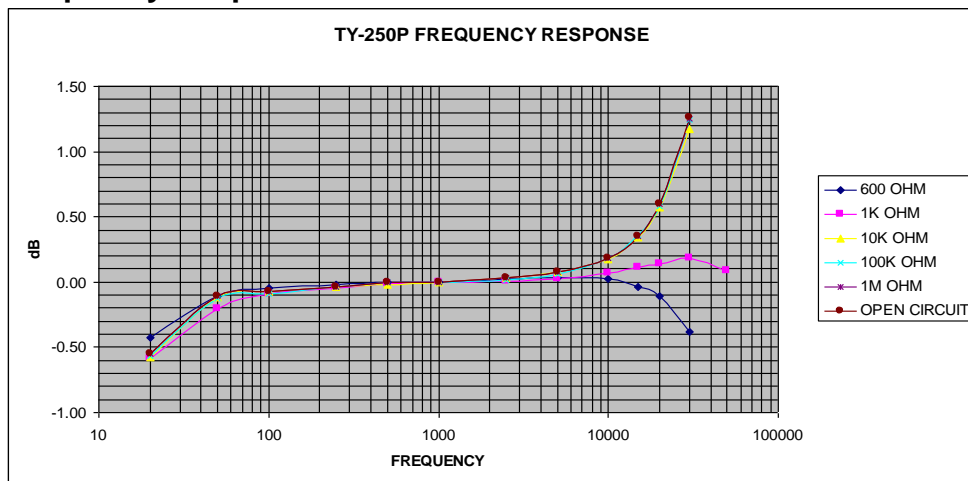
#### Electrical Specifications at 25° C:

- |                             |                                   |
|-----------------------------|-----------------------------------|
| 1. Primary Impedance:       | 1000Ω CT *                        |
| 2. Secondary Impedance:     | 1000Ω CT / 250Ω *                 |
| 3. Output:                  | 20mW *                            |
| 4. Primary DC Unbalance:    | 4 mA                              |
| 5. Frequency Response:      | ± 1db from 20 to 20,000 Hz        |
| 8. Insertion Loss @ 1K Hz:  | < 2.8db                           |
| 11. DCR: Primary (2-4)      | 172Ω Nominal                      |
| Secondary (5-8, w/6-7 tied) | 172Ω Nominal                      |
| 12. Turns Ratio:            | 1:1 (tie 6&7)                     |
|                             | 2:1 (5 tied to 6 and 7 tied to 8) |
| 13. Dielectric Strength     | 1500V Primary to Secondary        |

#### Outline Dimensions:

- A. Dimensions: As shown  
 B. Weight: 0.4 oz.

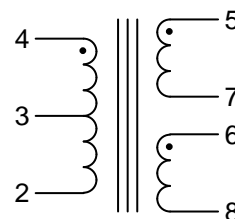
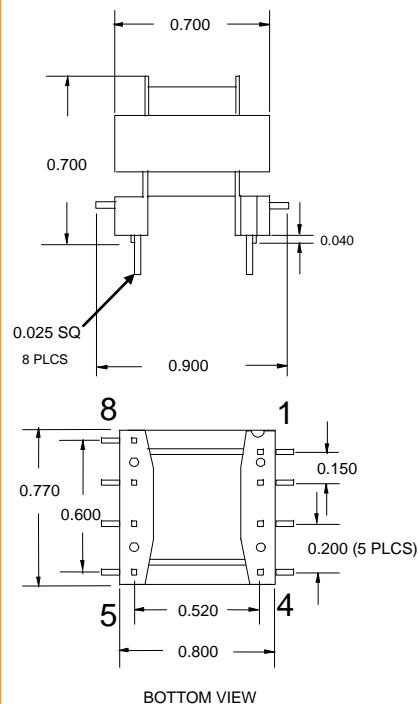
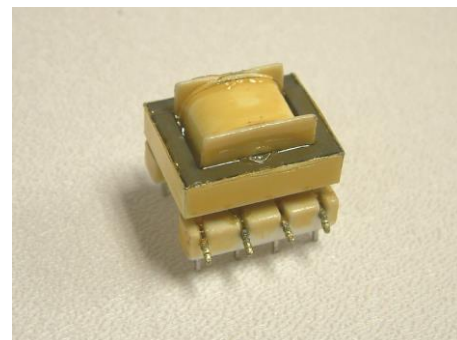
#### Frequency Response:



\* 600:600Ω, 10K:10KΩ, 100K:100KΩ, 1M:1MΩ, and other impedances (secondaries can all be used at ¼ value when placed in parallel) are optional as long as input voltage is ≤4.2Vrms and current is ≤7mA.

**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

\*Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics website for the most current version. For soldering and washing information please see <http://www.triadmagnetics.com/faq.html>



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