

# DIGITAL AUDIO

## Data Transmission Transformer

Turns Ratio ( ± 5% )	1CT :1CT
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PARAMETER	MIN.	TYP.	MAX.	UNITS
Open Circuit Inductance	3.5	5	6.5	mHy
Primary DC Resistance			1.0	ohms
Secondary DC Resistance			1.0	ohms
Isolation (HI-POT)	2.0			KV <sub>RMS</sub>
Leakage Inductance			1.2	μH
Rise Time			25	nS
ET Product	25			VμS
Common Mode Rejection <sup>(1)</sup>		70		dB
Return Loss		15		dB

**TEST CONDITIONS:**  
 Oscillation Voltage = 100mV  
 Oscillation Frequency = 100.0 KHz  
 Inductance measured on Primary winding. Pins 1-5  
 1.. @ 1MHZ in 100Ω system.

**Flammability:** Materials used in the production of these units meet requirements of UL94-VO and IEC 695-2-2 needle flame test.

**Temperature Characteristics:**  
 -40° C 3.5 mH min. (40% drop in inductance)  
 +85° C 5.75 mH min. (15% growth in inductance)  
**Typical part:**  
 5 mH @ +25° C  
 5.75 mH @ +85° C  
 3.5 mH @ -40° C

For Use with Echelon Neuron integrated circuits 3120 and 3150 Chips produced by Motorola and Toshiba. For Surface Mount Version Order Part Number T-10352

These Transformers provide excellent DC isolation and common mode noise rejection

Designed to improve and maintain the balance of the transmitter and receiver circuitry.

Designed for low cost.

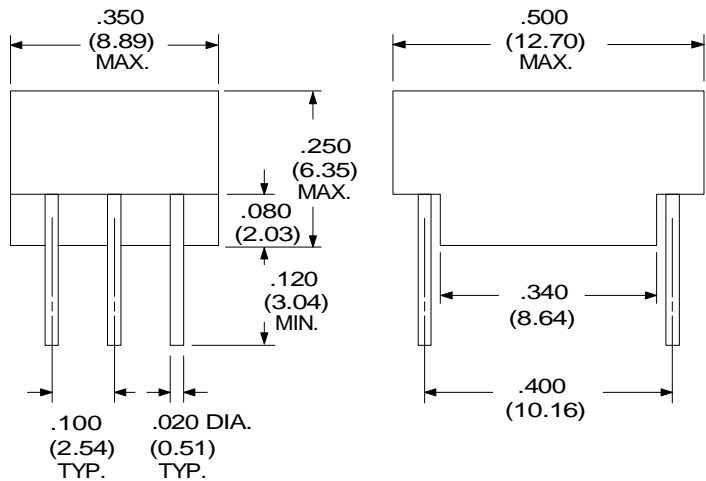
High voltage isolation

Available in Surface Mount Versions

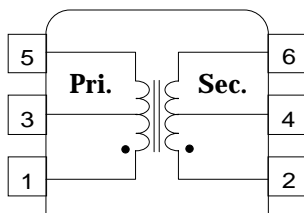
Custom Designs and Variations of these transformers available

Parts shipped in anti-static tubes. 50 pieces per tube

All dimensions in inches (mm):



**SCHEMATIC DIAGRAM:**  
**Top view**



<b>RHOMBUS P/N: T-10252</b>	
CUST P/N:	NAME:
DATE: <b>11/12/99</b>	SHEET: 1 OF 1