

Fast Facts

CHT-17100 Series



- Low Cost Encapsulated Transformer
- Designed for Use Over a Wide Frequency Range
- Sensitivity Can Be Set to Match Your Specific Requirements
- Can be Provided With Installed Primary for Easy PCB Installation
- Other Configurations Available Upon Request - Contact TT Electronics

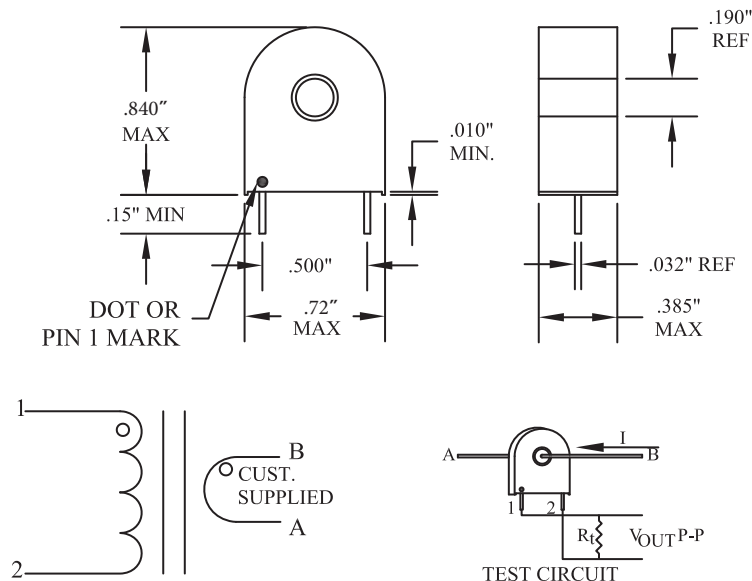
Electrical Characteristics

Model Number	Turn	Inductance mHy (Min)	DCR Ohms (Max)	Rb Ohms (Note 1)
CHT-17100-0500	50	5	0.50	50
CHT-17100-1000	100	20	1.40	100
CHT-17100-1500	150	45	3.00	150
CHT-17100-2000	200	80	4.50	200
CHT-17100-3000	300	180	11.0	300
CHT-17100-4000	400	320	18	400
CHT-17100-5000	500	500	30	500
CHT-17100-7500	750	1150	57	750

NOTE (1): Burden resistor value that will deliver 1 volt per amp with a single turn primary. (See design below for examples of other Rb values)

Physical Dimensions

Unit: mm

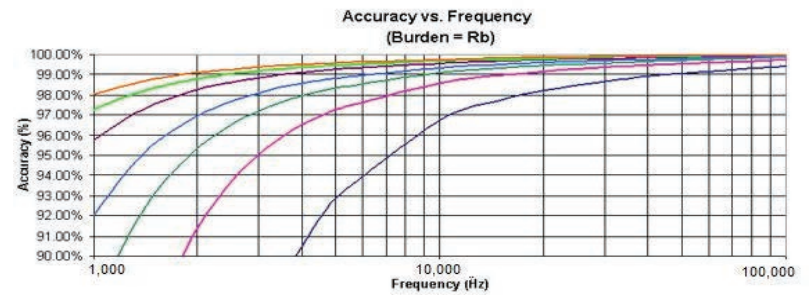
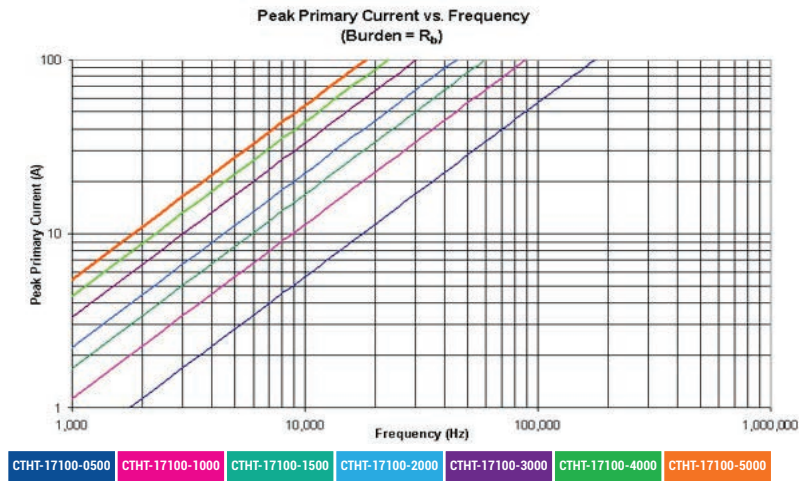
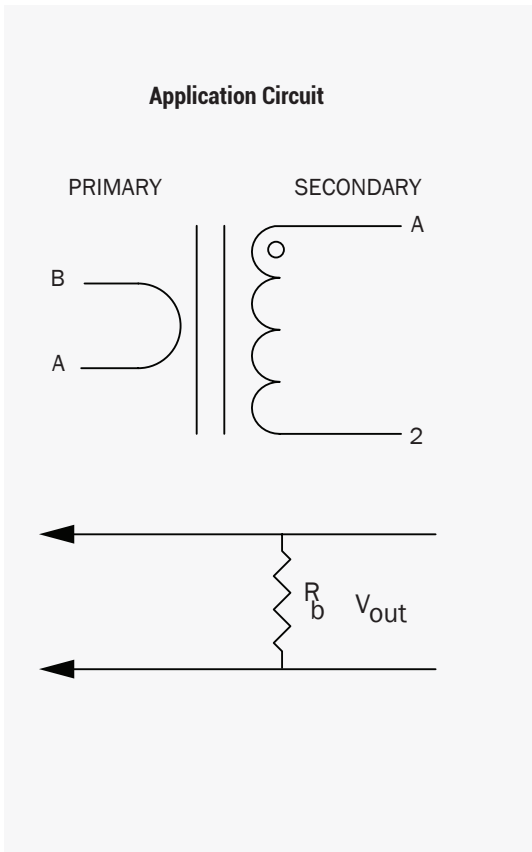


Design Criteria

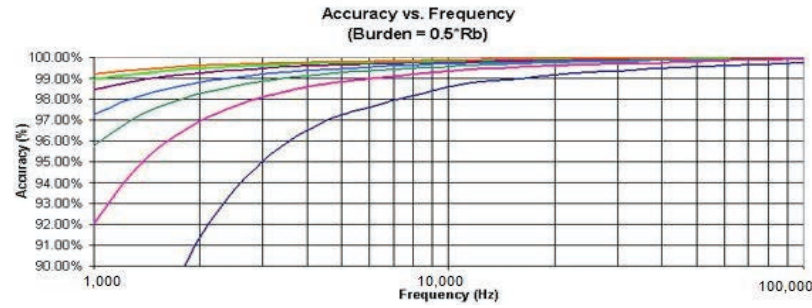
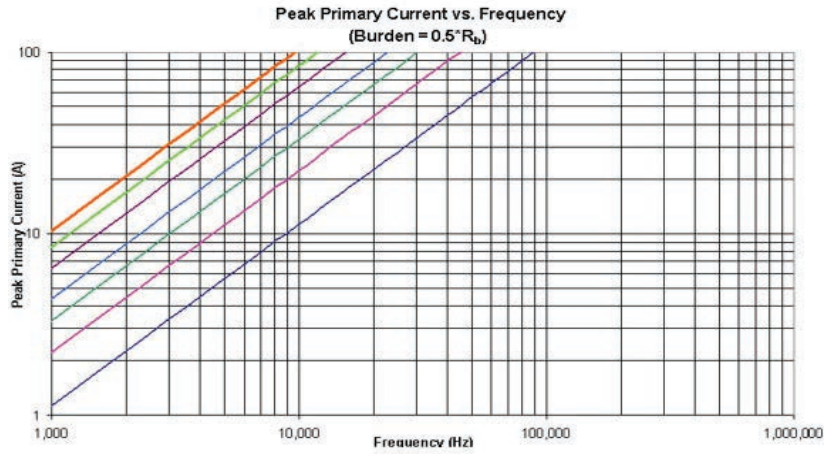
To match your monitoring circuitry to a specific CT, you need to know the CT characteristics in relationship to input current, turn ratio, and frequency range. The R_b referenced in the curves below is defined as $R_b = 1 \text{ Volt}/I_s$, the value which will yield one volt per amp output, where $I_s = (N_p/N_s) I_p$. To assist with choosing R_b , see graphs below. Lower or higher R_b values can be used for your specific requirements. Contact a Precision engineer for assistance (See buttons below).

Note:

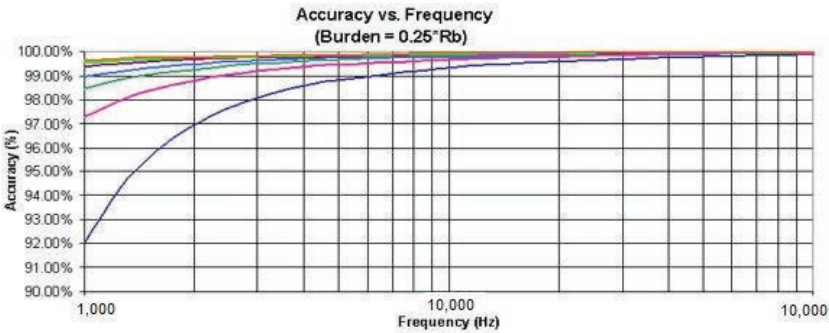
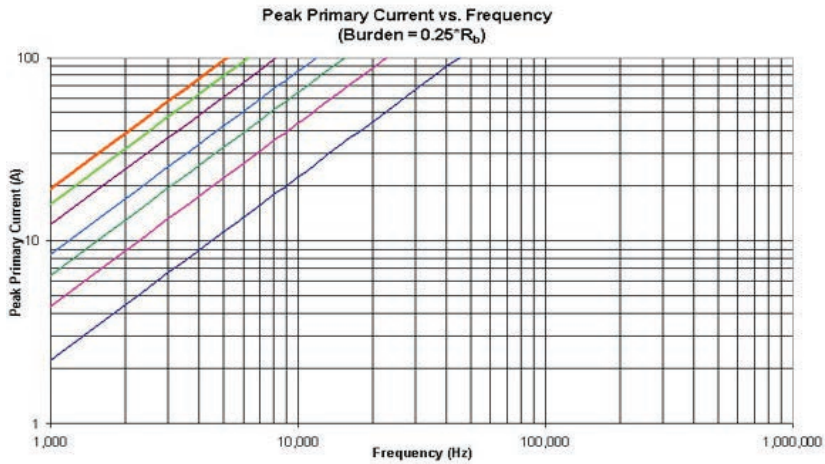
All results shown assume a square waveform for the current, where $T_{on} = 0.5T$. Other wave forms are supported to slightly higher peak currents.



Design Criteria



CTHT-17100-0500 CTHT-17100-1000 CTHT-17100-1500 CTHT-17100-2000 CTHT-17100-3000 CTHT-17100-4000 CTHT-17100-5000



CTHT-17100-0500 CTHT-17100-1000 CTHT-17100-1500 CTHT-17100-2000 CTHT-17100-3000 CTHT-17100-4000 CTHT-17100-5000