

High Ratio Wire Lead Transformers

CR Magnetics **CR8400** series of Wire Lead Current Transformers are available in a wide range of sizes and materials to meet any AC current sensing needs. Our **General Purpose** designs are made from the highest quality silicon steel cores available, and meet most of the common AC current measurement needs. Our **Revenue Grade** CTs (-N) are made from a nickel alloy core which provides the most linear response over temperature and current level. A line of Ground Fault CTs for measuring low AC currents include electrical shields. The **High Frequency** (-F) products are designed for high frequency applications such as high frequency power supplies and motor drives.

GENERAL PURPOSE CURRENT TRANSFORMERS

Part Number	I _r	V _{max} RMS	T _e	FREQUENCY
CR8401-1000	10	1.5	1009	20 -1KHz
CR8410-1000	20	2.1	1012	20 -1KHz
CR8420-1000	50	3.8	1018	20 -1KHz
CR8448-2000	50	10.2	2046	20 -1KHz
CR8449-1000	50	6.8	1016	20 -1KHz
CR8449-2000	75	12.8	2046	20 -1KHz
CR8450-1000	100	10.7	1021	20 -1KHz
CR8450-2000	200	14.6	2037	20 -1KHz

REVENUE GRADE CURRENT TRANSFORMERS

Part Number	I _r	V _{max} RMS	T _e	FREQUENCY
CR8448-2500-N	40	2.3	2510	20 -1KHz
CR8449-2500-N	50	2.4	1009	20 -1KHz
CR8450-2500-N	75	4.8	2512	20 -1KHz
CR8459-2000-N	100	7.2	2011	20 -1KHz

GROUND FAULT CURRENT TRANSFORMERS

Part Number	I _r	V _{max} RMS	T _e	FREQUENCY
CR8401-1000-G	4	0.3	1005	20 -1KHz
CR8410-1000-G	7	0.90	1007	20 -1KHz
CR8420-1000-G	20	2.0	1011	20 -1KHz

HIGH FREQUENCY CURRENT TRANSFORMERS

Part Number	I _r	V _{max} RMS	T _e	FREQUENCY
CR8448-2000-F	50	2.5	2015	20KHz-200KHz
CR8449-2000-F	75	3.5	2017	20KHz-200KHz
CR8450-2000-F	100	4.8	2020	20KHz-200KHz

I_r = Maximum Input Current to be linearly sensed V_{max} = Maximum Linear Voltage (Saturation) CT will develop at I_r

T_e = Effective turns ratio including losses

PACKAGE DIMENSIONS AND OUTLINE (mm/in)

Part Number Prefix	A min	B max	C max	D max	E Typ	Part Number Prefix	A min	B max	C max	D max	E Typ
CR8401	6.7 .26	17 .67	18 .71	7.8 .31	70 2.76	CR8449	9 .35	27.9 1.10	29.7 1.17	15.2 .67	101.6 4.00
CR8410	8.9 .35	22 .87	26 1.02	9 .35	73 2.87	CR8450	12.8 .50	36.3 1.43	39.9 1.57	14.0 .55	101.6 4.00
CR8420	14.9 .59	30.0 1.18	32.2 1.27	9 .35	100 3.94	CR8459	19 .75	48 1.89	60 2.36	17 .67	200 7.88
CR8448	6.9 .27	23.4 .92	27.9 1.1	11.2 .44	101.6 4.00						

CR8400 SERIES



CR8400 Cased



CR8450 Dipped

Applications

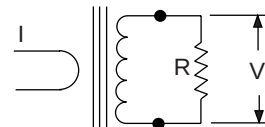
- Motor Load Measurement
- Power Meters
- High Frequency Current Sensing
- Ground Fault Sensing

Features

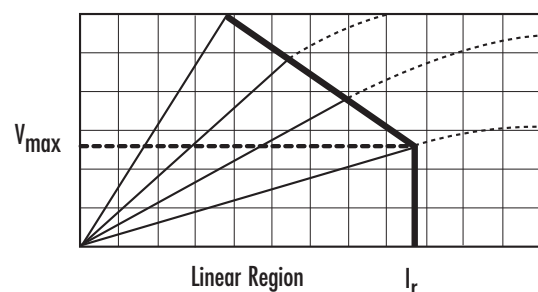
- High Ratio
- Standard Footprints

Specifications

- Maximum Continuous Primary Current 4 X I_r
- UL, CSA, CE, and RoHS available

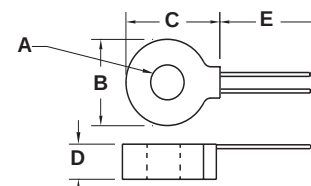


$$V = \frac{I \times R}{T_e}$$



Linear Region

I_r



Current Transformers



Another HUNTINGTON ELECTRIC Company

CR Magnetics, Inc. 3500 Scarlet Oak Blvd St. Louis MO 63122 USA V: 636 343 8518 F: 636 343 5119

Web: <http://www.crmagnetics.com>

E-mail: sales@crmagnetics.com