

High Ratio Vertical PCB Mount Current Transformer

CR Magnetics **CR8300** Series of PCB Mounted 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. The **High Frequency** (**-F**) products are designed for high frequency applications such as high frequency power supplies and motor drives. CR Magnetics offers **DC Immune** (**-D**) models that are designed to provide sensing of AC currents where DC offsets also exist. All products are offered in standard sizes, with the most popular turns ratios. UL, CSA, CE, and RoHS acceptance are all standard.

Current Transformers

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GENERAL PURPOSE VERTICAL PCB CURRENT TRANSFORMERS

Part Number	I _F	V _{max} RMS	T _e (typ.)	DCR Ω	Frequency
CR8320-1600	10	1.6	1613	95	20 - 1 KHz
CR8348-1000	20	7.0	1023	24	20 - 1 KHz
CR8348-2000	50	10.2	2046	106	20 - 1 KHz
CR8349-1000	50	6.8	1016	35	20 - 1 KHz
CR8349-1500	75	12.8	1520	80	20 - 1 KHz
CR8350-1000	100	8.1	1021	22	20 - 1 KHz
CR8350-2000	200	16.7	2037	73	20 - 1 KHz

REVENUE GRADE VERTICAL PCB CURRENT TRANSFORMERS

Part Number	I _F	V _{max} RMS	T _e (typ.)	DCR Ω	Frequency
CR8348-2500-N	40	4.1	2510	134	20 - 1 KHz
CR8349-1000-N	50	3.2	1009	32	20 - 1 KHz
CR8349-2500-N	75	7.9	2512	190	20 - 1 KHz
CR8350-2500-N	100	9.6	2511	57	20 - 1 KHz

HIGH FREQUENCY VERTICAL PCB CURRENT TRANSFORMERS

Part Number	I _F	V _{max} RMS	T _e (typ.)	DCR Ω	Frequency
CR8348-2000-F	50	4.2	2022	88	20 - 200KHz
CR8349-2000-F	75	7.1	2024	109	20 - 200KHz
CR8350-2000-F	100	10.5	2027	73	20 - 200KHz

DC IMMUNE VERTICAL PCB CURRENT TRANSFORMERS

Part Number	I _F	V _{max} RMS	T _e (typ.)	DCR Ω	Frequency
CR8348-2000-D	50	4.5	2015	57	20 - 1 KHz
CR8349-2000-D	75	7.6	2017	48	20 - 1 KHz
CR8350-2000-D	100	6.7	2020	25	20 - 1 KHz

I_F = Maximum Input Current to be linearly sensed V_{max} = Maximum Voltage (Saturation) CT will develop
 T_e = Effective turns ratio including losses (All Specifications tested at 60 Hz)

PACKAGE AND PIN OUT DIMENSIONS (mm / in)

Part Number Prefix	A min	B max	C max	D max	E ± 0.3	F ± 0.3	G ± 0.3	H typ
CR8320	5.5 .22	19.4 .76	19.5 .77	8.2 .32	12.7 .50	N/A	N/A	3.2 .13
CR8348	6.7 .27	23.5 .93	25 .98	11 .43	15.2 .60	9.5 .37	19 .75	1.90 .07
CR8349	9 .35	26 1.02	28 1.10	17 .67	15.2 .60	15.5 .61	19 .75	1.90 .07
CR8350	12.8 .50	37.5 1.48	39 1.54	14 .55	25.4 1.00	12.7 .50	33.02 1.30	3.81 .15

CR8300 SERIES



Applications

Motor Load Measurement
 Power Meters
 High Frequency Current Sensing

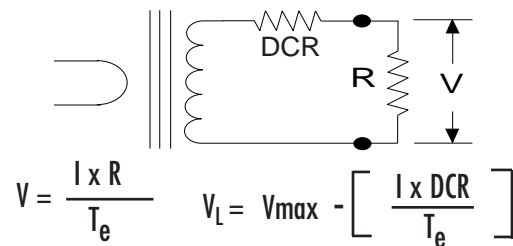
Features

High Ratio
 Standard Footprints

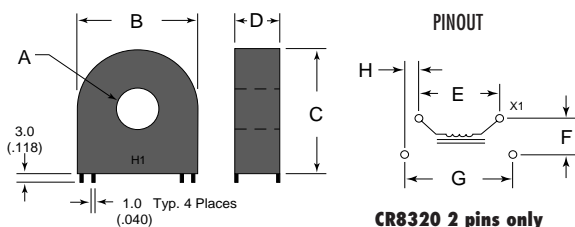
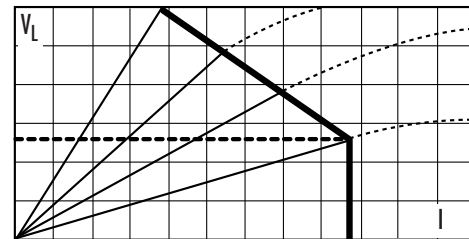
Specifications

Maximum Continuous Primary Current 4 X I_F
 Storage Temp. -45°C thru +85°C
 Operating Temp. General Purpose & Nickel -40°C thru +85°C
 Operating Temp. High Frequency -40°C thru +65°C

Regulatory Agencies



For best linearity, choose R such that V < 0.8 V_L



Another HUNTINGTON ELECTRIC Company

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