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.

Part Number	l _e	Vmax RMS	Te (typ.)	DCR Ω	Frequency	Pin Diameter	
CR8320-1600	10	1.8	1613	95	20 - 1 KHz	0.8 X 4.0 MM	
CR8348-1000	20	7.0	1023	24	20 - 1 KHz	1.0 X 3.0 MM	
CR8348-2000	50	13.7	2046	106	20 - 1 KHz	1.0 X 3.0 MM	
CR8349-1000	50	11.6	1016	35	20 - 1 KHz	1.0 X 6.0 MM	
CR8349-1500	75	15.5	1520	80	20 - 1 KHz	1.0 X 4.0 MM	
CR8350-1000	100	16.5	1021	22	20 - 1 KHz	1.0 X 3.0 MM	
CR8350-2000	200	31.0	2037	73	20 - 1 KHz	1.0 X 3.0 MM	
		E VERTIC	AL PCB C		TRANSFO	RMERS	
Part Number	l _r	Vmax RMS	Te (typ.)	DCR Ω	Frequency	Pin Diamete	
CR8348-2500-N	40	7.5	2510	134	20 - 1 KHz	1.0 X 3.0 MM	
CR8349-1000-N	50	5.1	1009 32		20 - 1 KHz	1.0 X 3.0 MM	
CR8349-2500-N	75	11.2	2512	190	20 - 1 KHz	1.0 X 3.0 MM	
CR8350-2500-N	100	10.5	2511	57	20 - 1 KHz	1.0 X 6.0 MM	
HIGH F	REQUEN	CY VERTIC	AL PCB (URRENT	TRANSFO	RMERS	
Part Number	l _r	Vmax RMS	Te (typ.)	DCR Ω	Frequency	Pin Diamete	
CR8348-2000-F	50	3.7	2022	88	20 - 200KHz	1.0 X 6.0 MM	
CR8349-2000-F	75	16.0	2024	109	20 - 200KHz	1.0 X 3.0 MM	
CR8350-2000-F	100	10.0	2027	73	20 - 200KHz	1.0 X 3.0 MM	
			DCD CHE	DENT TD	ΔNSFORN	IERS	
DC I	MMUNE	VERTICAL	PCB CUR				
DC I	MMUNE 'r	VERTICAL Vmax RMS	Te (typ.)	DCR Ω	Frequency		
						Pin Diameter	
Part Number	I _p	Vmax RMS	Te (typ.)	DCR Ω	Frequency	Pin Diamete	

I = Maximum Input Current to be linearly sensed

V = Aximum Voltage (Saturation) CT will develop

T = Effective turns ratio including losses (All Specifications tested at 60 Hz)

PACKAGE AND PIN OUT DIMENSIONS (mm/in)												
Part Number Prefi	A	В	C	D	E	F	G	Н				
	min	max	max	max	± 0.3	± 0.3	± 0.3	typ				
CR8320	5.5 .22	19.4 .76	19.5 .77	8.2 .32	12.7 .50	N/A	N/A	4.0 .16				
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

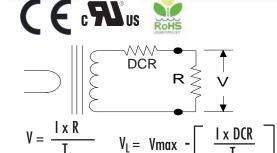
Maximum Continuous Primary Current

Insulation Voltage
Storage Temp.
4 X Ir

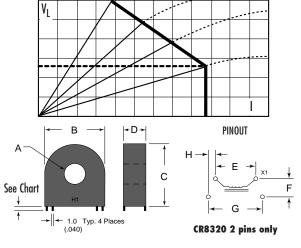
3500 Vac/1min
-45°C thru +85°C
Operating Temp. General Purpose & Nickel
Operating Temp. High Frequency
4 X Ir

4 X Ir
-45°C thru +85°C
-40°C thru +85°C

Regulatory Agencies



For best linearity, choose R such that $\text{V} < 0.8 \; \text{V}_{\text{I}}$





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