

CTHSC1008F Series

From 0.15µH to 0.40µH

SPECIFICATIONS

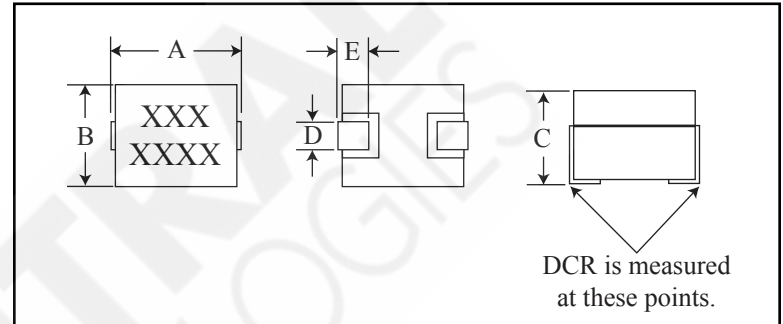
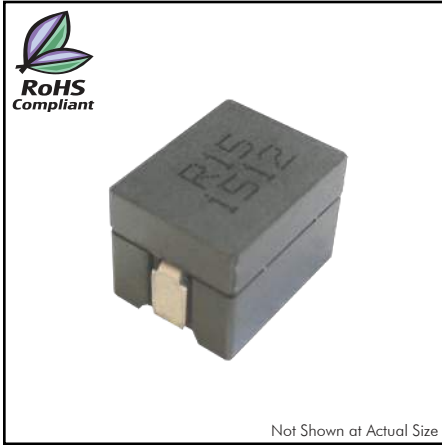
Part numbers indicate available inductance tolerance.

K = ±10%, L = ±15%

Part Number	Inductance (µH)	L Test Freq. (kHz)	DCR ±6% (mΩ)	Isat Max. (A)	Irms Max. (A)
CTHSC1008F-R15K	0.15	100	0.29	76	56
CTHSC1008F-R17K	0.17	100	0.29	66	56
CTHSC1008F-R22K	0.22	100	0.29	50	56
CTHSC1008F-R27K	0.27	100	0.29	40	56
CTHSC1008F-R30K	0.30	100	0.29	35	56
CTHSC1008F-R40L	0.40	100	0.29	25	56

PHYSICAL DIMENSIONS

Size	A	B Max.	C	D	E
mm	10.2±0.2	8.0	7.3±0.2	2.2±0.2	2.54±0.5
inches	0.402±0.008	0.315	0.287±0.008	0.087±0.008	0.100±0.020



CHARACTERISTICS

Description: SMD power inductors

Applications: Voltage regulator modules (VRMs) for servers and microprocessors, High frequency switching power supplies, etc.

Features:

- Designed for high speed, high current switch mode applications requiring lower inductance.
- Gapped ferrite cores for maximum efficiency.

Operating Temperature: -40°C to 125°C (including self - temperature rise)

Inductance Tolerances: ±10%, ±15%

OCL Testing: 100kHz, 0.25Vrms, 0Adc and Isat at 20°C

Note: DC current for an approximate ΔT of 40°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, airflow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 155°C under worst case operating conditions verified in the end application.

Packaging: Tape & Reel.

Miscellaneous: RoHS Compliant.

Additional Information: Additional electrical & physical information available upon request.

Samples available. See website for ordering information.

PAD LAYOUT

Unit: mm

