

## CTIHL P2709F Series

From .47  $\mu\text{H}$  to 10  $\mu\text{H}$



Not Shown at Actual Size

### CHARACTERISTICS

**Description:** SMD (shielded) power inductor.

**Applications:** Notebook, Desktop, Server applications, Low profile, high current power supplies, battery powered devices, DC/DC converter for Field Programmable Gate Array (FPGA).

**Operating Temperature:** -55°C to +125°C (The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application)

**Inductance Tolerance:**  $\pm 20\%$

**Testing:** Inductance is tested on an HP4285A at 200KHz, 0.25V

**Packaging:** Tape & Reel.

**Marking:** Parts are marked with inductance code.

**Miscellaneous:** **RoHS Compliant.**

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

**Samples available. See website for ordering information.**

### SPECIFICATIONS

Parts are available in  $\pm 20\%$  inductance tolerance only.

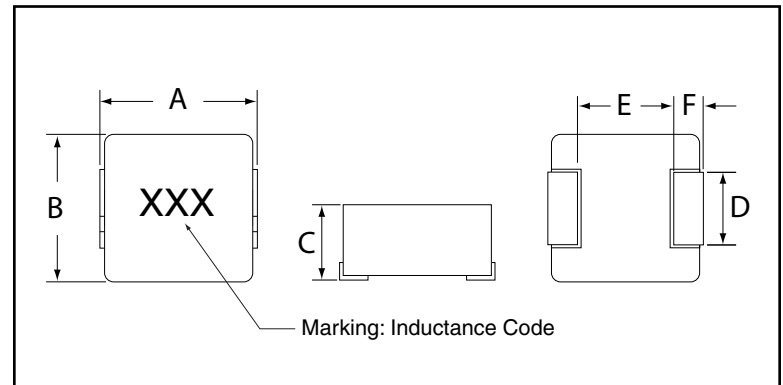
\*I<sub>rms</sub> DC current (A) that will cause an approximate  $\Delta T$  of 40°C.

\*\*I<sub>sat</sub> DC current (A) that will cause L<sub>0</sub> to drop approximately 20%.

Part Number	Inductance ( $\mu\text{H}$ )	L Test Freq. (KHz)	DCR Max. (m $\Omega$ )	*I <sub>rms</sub> Typ. (A)	**I <sub>sat</sub> Typ. (A)
CTIHL P2709F-R47M	0.47	200	6.50	13.5	21
CTIHL P2709F-R56M	0.56	200	7.50	12.0	19
CTIHL P2709F-R68M	0.68	200	9.40	11.0	18
CTIHL P2709F-R82M	0.82	200	11.8	10.0	17
CTIHL P2709F-1R0M	1.0	200	14.2	9.0	16
CTIHL P2709F-1R5M	1.5	200	21.2	7.5	13
CTIHL P2709F-2R2M	2.2	200	34.0	6.5	11
CTIHL P2709F-3R3M	3.3	200	51.6	5.0	9
CTIHL P2709F-4R7M	4.7	200	63.0	4.5	7
CTIHL P2709F-6R8M	6.8	200	95.0	3.5	6
CTIHL P2709F-100M	10	200	129	2.5	5

### PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Max.	D	E Ref.	F Ref.
mm	7.3	6.8	2.4	3.2 $\pm$ 0.2	4.2	1.3
inches	0.290	0.270	0.09	0.126 $\pm$ 0.008	0.165	0.051



### PAD LAYOUT

