

## CTIHLP1808F Series

From 0.10 $\mu$ H to 10 $\mu$ H



### CHARACTERISTICS

- Description:** SMD (shielded) power inductor.
- Applications:** PDA, 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 (including self - temperature rise)
- Inductance Tolerance:**  $\pm 20\%$
- Testing:** Inductance is tested on an HP4285A at 100KHz, 0.5V
- 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.**

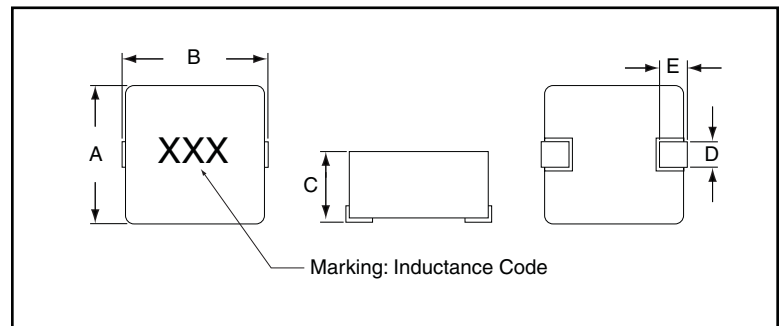
### SPECIFICATIONS

\*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 L0 to drop approximately 30%.

Part Number	Inductance ( $\mu$ H)	L Test Freq. (KHz)	DCR Max. (m $\Omega$ )	*I <sub>rms</sub> Typ. (A)	**I <sub>sat</sub> Typ. (A)
CTIHLP1808F-R10M	0.10	100	4.0	12.0	25.0
CTIHLP1808F-R22M	0.22	100	6.6	9.0	12.5
CTIHLP1808F-R47M	0.47	100	14	7.0	9.5
CTIHLP1808F-1R0M	1.0	100	27	4.5	7.0
CTIHLP1808F-1R5M	1.5	100	46	4.0	6.0
CTIHLP1808F-2R2M	2.2	100	58	3.0	5.0
CTIHLP1808F-3R3M	3.3	100	87	2.5	4.0
CTIHLP1808F-4R7M	4.7	100	105	2.2	3.0
CTIHLP1808F-6R8M	6.8	100	135	2.0	2.5
CTIHLP1808F-8R2M	8.2	100	216	2.0	2.5
CTIHLP1808F-100M	10	100	258	1.6	2.0

### PHYSICAL DIMENSIONS

Size	A	B	C	D	E
			Max.		
mm	4.1 $\pm$ 0.2	4.6 $\pm$ 0.2	2.0	1.5 $\pm$ 0.3	1.0 $\pm$ 0.5
inches	0.16 $\pm$ 0.008	0.18 $\pm$ 0.008	0.08	0.06 $\pm$ 0.012	0.04 $\pm$ 0.020



### PAD LAYOUT

