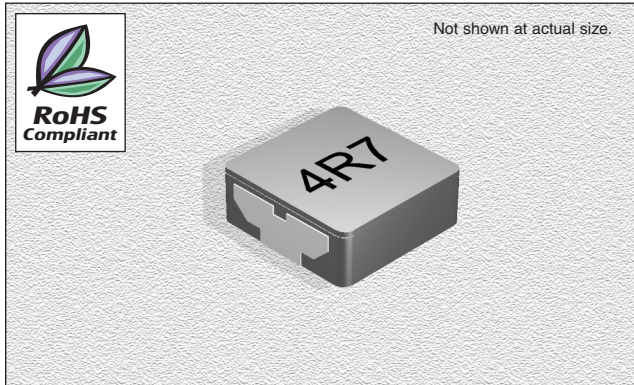


# CTSEP1204KF Series

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



## CHARACTERISTICS

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

**Applications:** PDA, Notebook, Desktop, Server applications. High current POL converters. Low profile, high current power supplies. Battery powered devices. DC/DC converters in distributed power systems. DC/DC converter for Field Programmable Gate Array (FPGA).

**Operating Temperature:** -55°C to +120°C

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

**Testing:** Inductance is tested on an HP4285A at 100 kHz, 100mV

**Packaging:** Tape & Reel

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

**Miscellaneous:** RoHS Compliant. Magnetically shielded

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

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

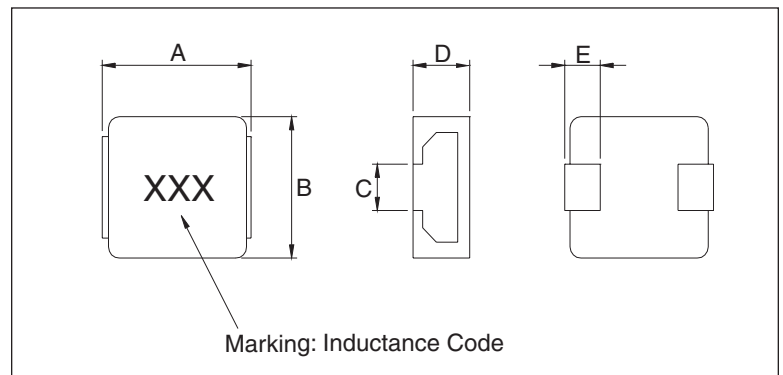
## SPECIFICATIONS

Parts are only available  $\pm 20\%$  inductance tolerance only.  
 Isat: Current at which the inductance drops 20% typ. from it's value without current.  
 Irms: Average current for 40°C temperature rise from 25°C ambient.

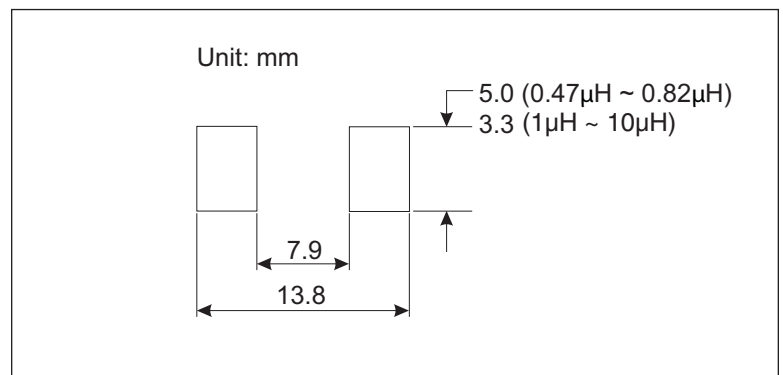
Part Number	Inductance ( $\mu\text{H}$ )	L Test Freq. (kHz)	DCR Typ. (m $\Omega$ )	Irms Typ. (A)	Isat Typ. (A)	Dimension C (mm)
CTSEP1204KF-R47M	0.47	100	1.8	28	40	4.7 $\pm$ 0.3
CTSEP1204KF-R60M	0.60	100	2.2	25	36	4.7 $\pm$ 0.3
CTSEP1204KF-R68M	0.68	100	2.6	22	34	4.7 $\pm$ 0.3
CTSEP1204KF-R82M	0.82	100	2.9	19	32	4.7 $\pm$ 0.3
CTSEP1204KF-1R0M	1.00	100	3.2	18	30	3.0 $\pm$ 0.3
CTSEP1204KF-1R5M	1.50	100	5.3	15	26	3.0 $\pm$ 0.3
CTSEP1204KF-1R8M	1.80	100	6.7	12	25	3.0 $\pm$ 0.3
CTSEP1204KF-2R2M	2.20	100	7.1	10.5	22	3.0 $\pm$ 0.3
CTSEP1204KF-3R3M	3.30	100	10.6	9.5	18	3.0 $\pm$ 0.3
CTSEP1204KF-4R7M	4.70	100	14.2	8.0	12	3.0 $\pm$ 0.3
CTSEP1204KF-5R6M	5.60	100	23.0	6.5	11	3.0 $\pm$ 0.3
CTSEP1204KF-6R8M	6.80	100	32.0	6.0	10	3.0 $\pm$ 0.3
CTSEP1204KF-8R2M	8.20	100	36.0	5.5	8	3.0 $\pm$ 0.3
CTSEP1204KF-100M	10.0	100	39.0	5.0	7	3.0 $\pm$ 0.3

## PHYSICAL DIMENSIONS

Size	A	B	C	D Max.	E
mm	13.2 $\pm$ 0.4	12.7 $\pm$ 0.3	See	3.50	2.2 $\pm$ 0.3
inches	0.52 $\pm$ 0.02	0.50 $\pm$ 0.01	ordering info	0.14	0.09 $\pm$ 0.01



## RECOMMENDED LAND PATTERN



03.19.07