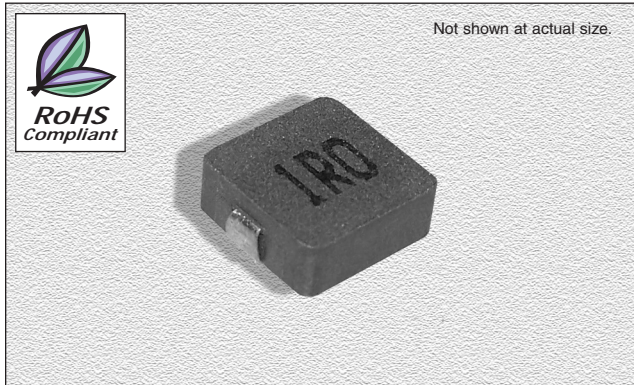


CTIHLP104F Series

From .36 μ H to 1.0 μ H



CHARACTERISTICS

- Description:** SMD (shielded) power inductor
- Applications:** High density DC/DC converters. POL converters. High current VRM/VRD for notebooks, Servers, and desktop CPUs. High speed chargers.
- Operating Temperature:** -55°C to +125°C
- 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.**

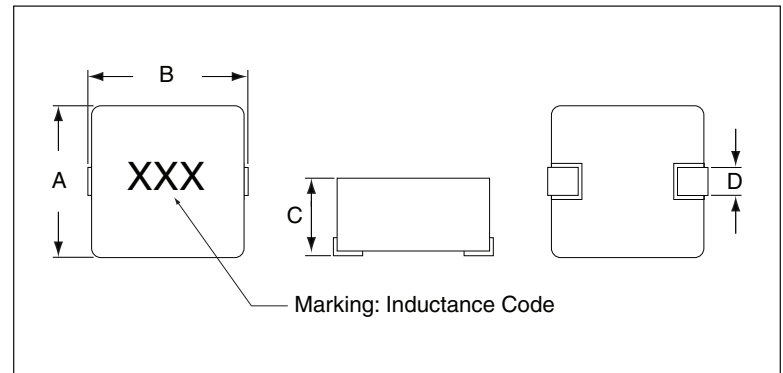
SPECIFICATIONS

Parts are only available $\pm 20\%$ inductance tolerance only
 *I_{rms} DC current (A) will cause an approximately ΔT of 40°C.
 **I_{sat} DC current (A) will cause L0 to drop approximately 30%.

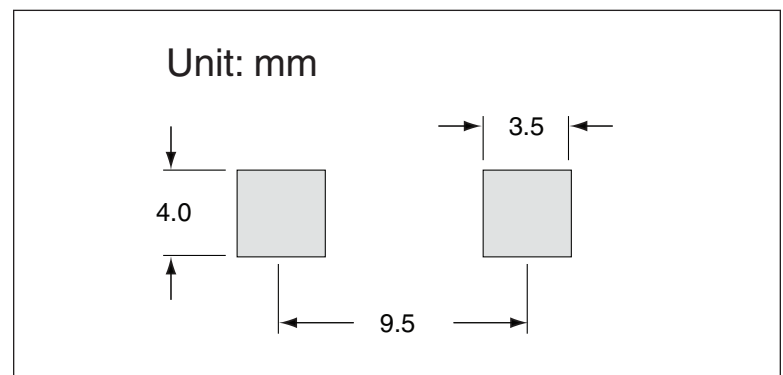
| Part Number | Inductance (μ H) | L Test Freq. (KHz) | *I _{rms} Typ. (A) | **I _{sat} Typ. (A) | DCR Max. (m Ω) |
|-----------------|-----------------------|--------------------|----------------------------|-----------------------------|------------------------|
| CTIHLP104F-R36M | 0.36 | 100 | 34 | 42 | 1.2 |
| CTIHLP104F-R45M | 0.45 | 100 | 33 | 38 | 1.2 |
| CTIHLP104F-R47M | 0.47 | 100 | 33 | 38 | 1.2 |
| CTIHLP104F-R50M | 0.50 | 100 | 27 | 32 | 1.55 |
| CTIHLP104F-R56M | 0.56 | 100 | 27 | 32 | 1.55 |
| CTIHLP104F-R68M | 0.68 | 100 | 27 | 30 | 1.55 |
| CTIHLP104F-R88M | 0.88 | 100 | 20 | 27 | 3.1 |
| CTIHLP104F-1R0M | 1.00 | 100 | 20 | 26 | 3.1 |

PHYSICAL DIMENSIONS

| Size | A | B Max. | C Max. | D Typ. |
|---------------|-----------------|-----------|-----------|-----------|
| mm | 10.1 \pm 0.3 | 11.6 | 4.0 | 3.0 |
| inches | 0.39 \pm 0.01 | 0.46 | 0.15 | 0.12 |



RECOMMENDED LAND PATTERN



09.13.10