

## CTPA5031F Series

From 0.21  $\mu\text{H}$  to 0.44  $\mu\text{H}$

### SPECIFICATIONS

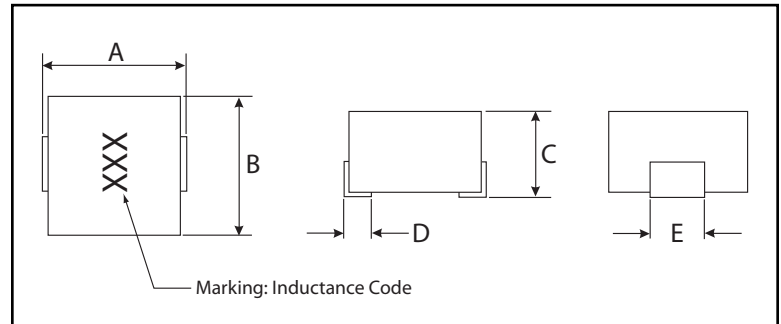
Parts are available in  $\pm 20\%$  inductance tolerance only.

| Part Number    | Inductance ( $\mu\text{H}$ ) | L Test Freq. (MHz) | DCR Max. (m $\Omega$ ) | Isat (A) | Irms (A) |
|----------------|------------------------------|--------------------|------------------------|----------|----------|
| CTPA5031F-R21M | 0.21                         | 2.0                | 0.35                   | 71       | 45       |
| CTPA5031F-R26M | 0.26                         | 2.0                | 0.35                   | 60       | 45       |
| CTPA5031F-R32M | 0.32                         | 2.0                | 0.35                   | 50       | 45       |
| CTPA5031F-R44M | 0.44                         | 2.0                | 0.35                   | 35       | 45       |



### PHYSICAL DIMENSIONS

| Size   | A Max. | B Max. | C Max. | D    | E    |
|--------|--------|--------|--------|------|------|
| mm     | 13.46  | 12.95  | 8.0    | 2.54 | 5.08 |
| inches | 0.53   | 0.51   | 0.31   | 0.10 | 0.20 |



### CHARACTERISTICS

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

**Applications:** Designed for higher speed switch mode applications requiring lower inductance and high current. Next generation microprocessors, etc.

**Operating Temperature:**  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$

**Isat:** This indicates the value of current when the inductance is 25% lower than its initial value at D.C. superposition or D.C. current.

**Irms:** To load current onto the components under normal ambience, which causes the temperature change as  $\Delta T = 40^{\circ}\text{C}$  or more lower current.

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

**Testing:** Inductance is tested on an HP4285A at 2.0MHz.

**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.**

### PAD LAYOUT

