

## CTSFW1030CF Series

From .20 $\mu$ H to 2.5 $\mu$ H

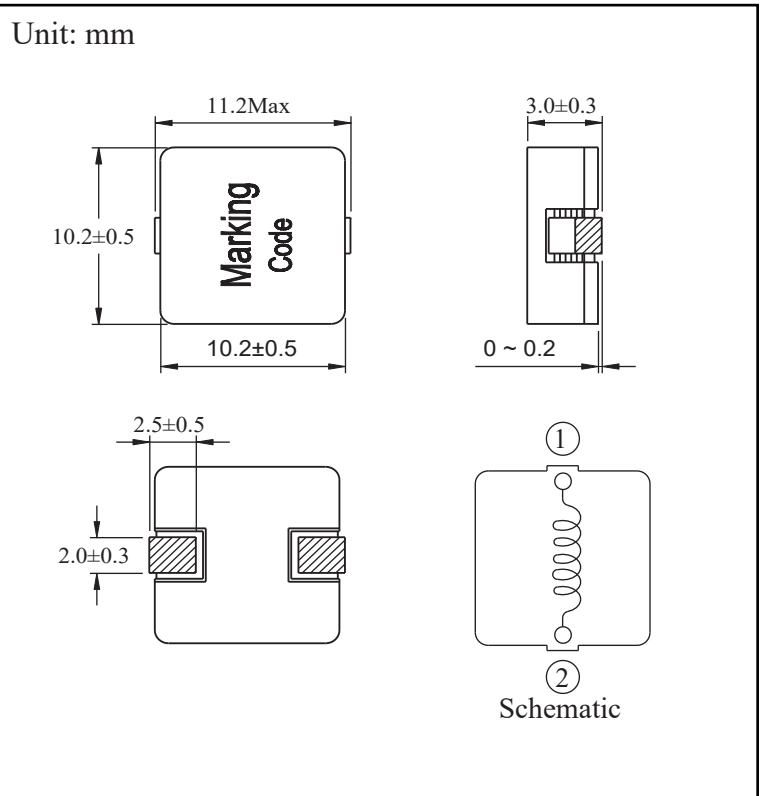
### SPECIFICATIONS

\*Isat: The actual value of DC current when the inductance decrease 30% of its initial value.  
 \*\*I<sub>rms</sub>: The actual value of DC current when the temperature rise is  $\Delta T50^{\circ}\text{C}$  ( $T_a=25^{\circ}\text{C}$ ).

Part Number	Inductance $\pm 20\%$ ( $\mu\text{H}$ )	DCR Nom.(Max.) (m $\Omega$ )	Isat(A) Drop $\leq 30\%$	I <sub>rms</sub> (A) Rise $\leq 50^{\circ}\text{C}$
CTSFW1030CF-R20M	0.20	0.82(0.95)	65.0	22.0
CTSFW1030CF-R47M	0.47	2.15(2.50)	40.0	18.0
CTSFW1030CF-1R0M	1.00	4.08(4.70)	25.0	15.0
CTSFW1030CF-1R5M	1.50	6.58(7.60)	22.0	12.0
CTSFW1030CF-2R2M	2.20	11.5(13.3)	18.0	9.00
CTSFW1030CF-2R5M	2.50	11.5(13.3)	15.0	9.00



### PHYSICAL DIMENSIONS



### CHARACTERISTICS

**Description:** SMD flat wire high current power inductors

**Features:**

- Magnetic shielded structure, excellent resistance to electromagnetic interference
- Flat wire winding, achieve a low DC resistance
- Lightweight design, save space, suitable for high density SMT

**Applications:** Graphic cards, Industrial computers, DC/DC converters, Motherboards, High current switching regulators, Polyphase-switching regulators, etc.

**Operating Temperature:**  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$  (including coil's self temperature rise)

**Storage Temperature:**  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

**Moisture Sensitivity Level (MSL):** 1

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

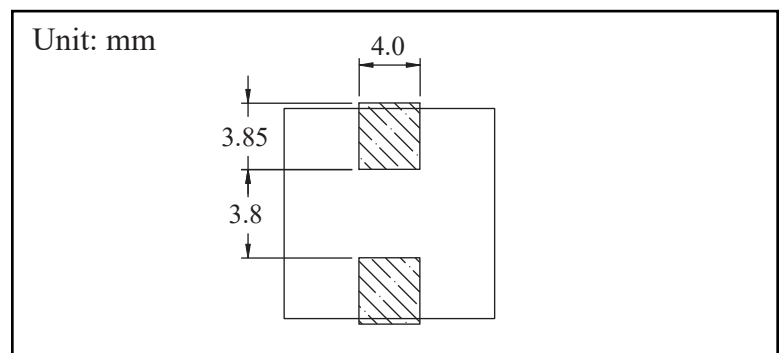
**Testing:** Inductance at 100kHz, 0.5V

**Packaging:** Tape & Reel.

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

Samples available. See website for ordering information.

### PAD LAYOUT



## CTSFW1030CF Series

### Saturation Current vs Temperature Rise Current Curve

