

# CTDAS1013F Series

From 3.3 $\mu$ H to 22 $\mu$ H



## CHARACTERISTICS

**Description:** SMD Inductors for Class D

**Features:**

- Magnetic shielded structure, excellent resistance to electro-magnetic interference.
- Sturdy construction.
- Low magnetic loss, low ESR, small parasitic capacitance.
- Closed magnetic circuit, super low buzzing, high density mount.
- The temperature rise of current and rated current less influenced by the environment.
- Realized low distortion and high sound quality by using low loss material and Oxygen Free Copper (OFC) wire.

**Applications:** TV and monitor, AV amplifier, video game console, power supply, navigation equipment, audio applications, etc.

**Operating Temperature:** -40°C to +125°C

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

**Testing:** Inductance at 100kHz, 1V (3R3-8R2), 1kHz, 1V (100-220)

**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.**

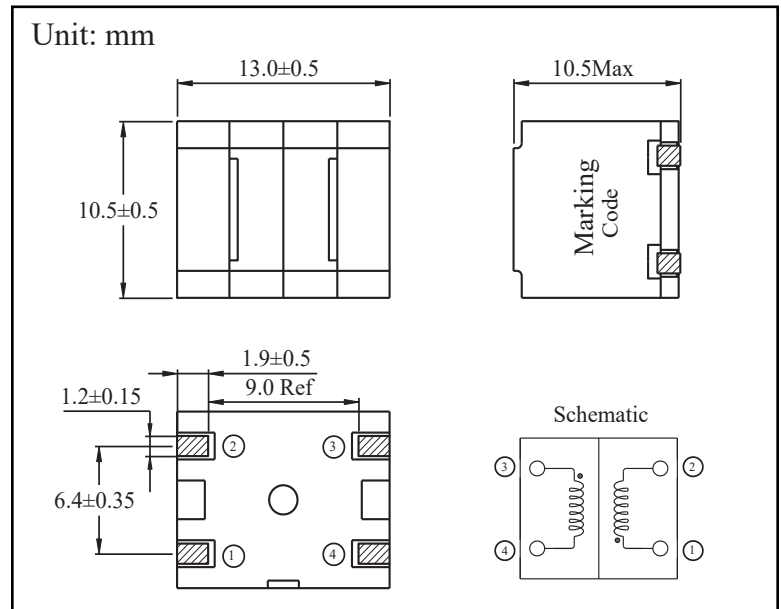
## SPECIFICATIONS

\*Isat: Value of inductance decrease within 25%

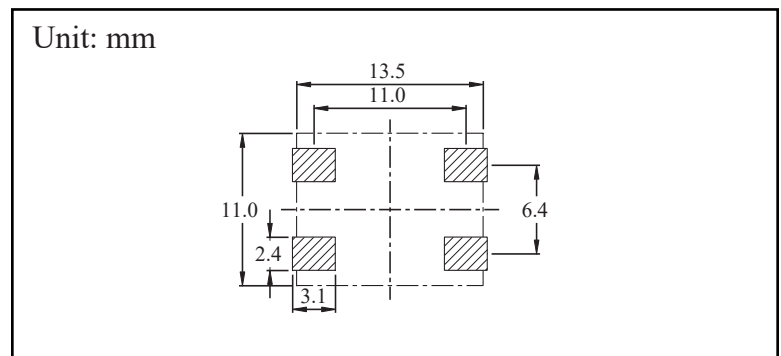
\*\*Irms: A rise in temperature of core surface is within 40°C

Part Number	Inductance $\pm 20\%$ ( $\mu$ H)	Test Freq. (kHz)	DCR Nom.(Max.) (m $\Omega$ )	*Isat Typ. (A)	**Irms Typ. (A)
CTDAS1013F-3R3M	3.30	100	9.00(11.00)	12.00	5.10
CTDAS1013F-4R7M	4.70	100	13.40(16.00)	16.00	4.40
CTDAS1013F-6R8M	6.80	100	13.40(16.00)	11.00	4.40
CTDAS1013F-8R2M	8.20	100	13.40(16.00)	7.20	4.40
CTDAS1013F-100M	10.00	1.0	15.00(18.00)	7.10	4.20
CTDAS1013F-120M	12.00	1.0	17.00(20.00)	6.00	4.00
CTDAS1013F-150M	15.00	1.0	19.00(23.00)	5.30	3.80
CTDAS1013F-180M	18.00	1.0	19.00(23.00)	4.60	3.80
CTDAS1013F-220M	22.00	1.0	32.00(38.00)	4.30	3.00

## PHYSICAL DIMENSIONS



## PAD LAYOUT



Saturation Current vs Temperature Rise Current Curve

