

## CTXAL5050TF Series

From 5.6 $\mu$ H to 8.2 $\mu$ H

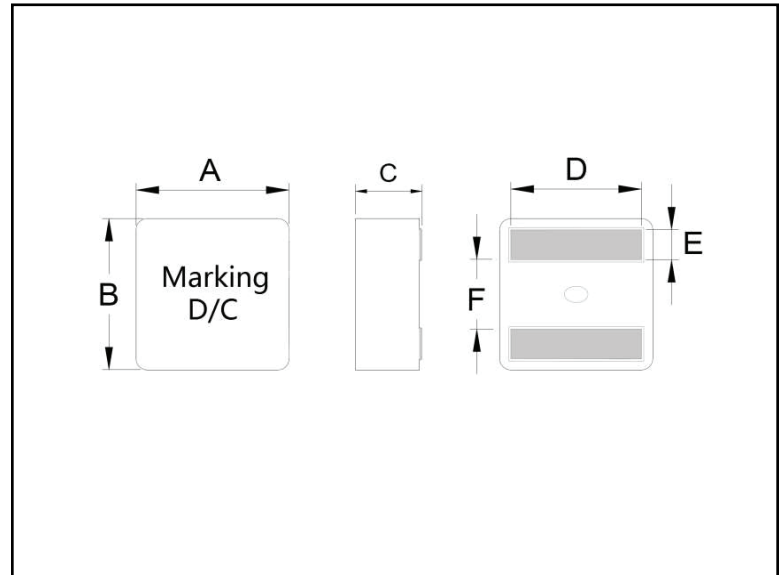
### SPECIFICATIONS

Part Number	Inductance ( $\mu$ H) $\pm 20\%$ @ 0A	Test Frequency	I <sub>rms</sub> (A)		I <sub>sat</sub> (A)		DCR (m $\Omega$ )	
			Typ. @20°C	Typ. @40°C	Typ.	Max.	Typ.	Max.
CTXAL5050TF-5R6M	5.60	100KHz/0.1V	5.30	7.20	8.60	7.20	22.0	24.2
CTXAL5050TF-6R8M	6.80	100KHz/0.1V	4.80	6.40	7.80	6.60	26.0	28.6
CTXAL5050TF-8R2M	8.20	100KHz/0.1V	4.60	6.10	7.20	6.10	29.5	32.5



### PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
mm	5.5 $\pm$ 0.2	5.3 $\pm$ 0.2	4.8 $\pm$ 0.2	4.3 $\pm$ 0.3	1.1 $\pm$ 0.2	2.3 $\pm$ 0.25
inches	0.22 $\pm$ 0.008	0.21 $\pm$ 0.008	0.19 $\pm$ 0.008	0.17 $\pm$ 0.012	0.04 $\pm$ 0.008	0.09 $\pm$ 0.010



### CHARACTERISTICS

- Description:** SMD high current power inductors  
**Applications:** Ideal for VRM/VRD applications  
**Operating Temperature:** -55°C to +155°C (including self-temperature rise)  
**Storage Temperature:** -55°C to +155°C (on board)  
**I<sub>rms</sub>:** Will cause the coil temperature rise approximately at  $\Delta T$  of 20°C & 40°C (see specification table)  
**I<sub>sat</sub> Typ.:** Will cause L<sub>0</sub> to drop approximately 30%  
**Part Temperature (Ambient+Temp.Rise):** Should not exceed 155°C under worst case operating conditions  
**Rated Operating Voltage:** (across inductor) 15V Ref.  
**Storage Condition (component in its packaging):**  
 1. Temperature: Less than 40°C  
 2. Humidity: 60% RH  
**Packaging:** Tape & Reel  
**Miscellaneous:** RoHS Compliant  
**Additional Information:** Additional electrical & physical information available upon request  
**Samples available. See website for ordering information.**

### PAD LAYOUT

