

CTXAL5050F Series

From 5.6 μ H to 8.2 μ H

SPECIFICATIONS

*Isat Typ. and Irms Typ. value is derived based from accounting the upper limit tolerance into the inductance value.

**At all times, the current supplied to the product should not exceed Isat Max. value.

Part Number	Inductance (μ H) $\pm 20\%$ @ 0A	Test Frequency	Irms (A)		Isat (A)		DCR (m Ω)	
			Typ. @20°C	Max. @40°C	Typ.	Max.	Typ.	Max.
CTXAL5050F-5R6M	5.60	100KHz/0.1V	5.30	7.20	8.60	7.20	22.0	24.2
CTXAL5050F-6R8M	6.80	100KHz/0.1V	4.80	6.40	7.80	6.60	26.0	28.6
CTXAL5050F-8R2M	8.20	100KHz/0.1V	4.60	6.10	7.20	6.10	29.5	32.5



CHARACTERISTICS

Description: SMD high current power inductors

Applications: Ideal for VRM/VRD applications

Operating Temperature: -40°C to +125°C (including self-temperature rise)

Storage Temperature: -40°C to +125°C (on board)

Irms: Will cause the coil temperature rise approximately at ΔT of 20°C & 40°C (see specification table)

Isat Typ.: Will cause L0 to drop approximately 30%

Part Temperature (Ambient+Temp.Rise): Should not exceed 125°C under worst case operating conditions

Rated Operating Voltage: (across inductor) 15V Ref.

Storage Condition (component in its packaging):

- Temperature: Less than 40°C
- Humidity: 60% RH

Packaging: Tape & Reel

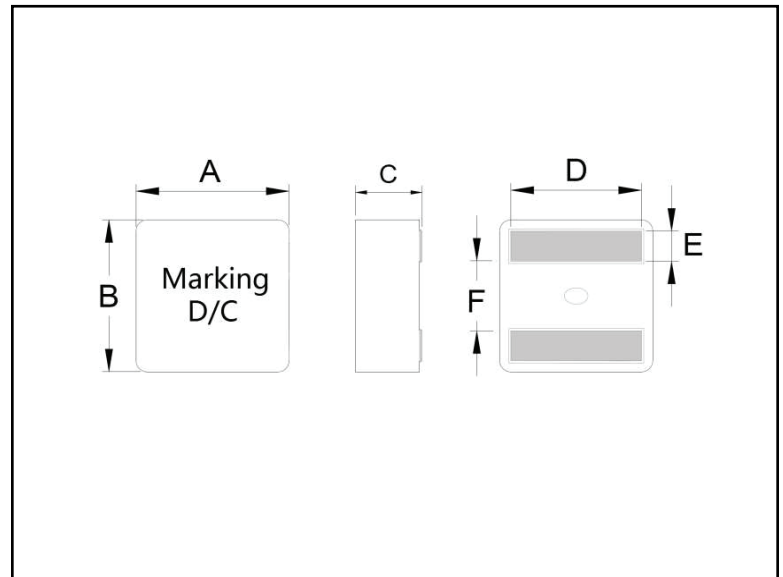
Miscellaneous: RoHS Compliant

Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.

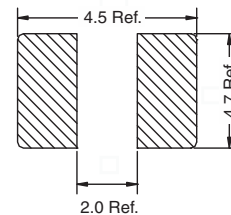
PHYSICAL DIMENSIONS

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



PAD LAYOUT

Unit: mm



Notes:

- The above Pad Layout is for reference only
- Solder paste thickness of 0.12mm and above is recommended