

CTXAL6030F Series

From 0.18µH to 4.5µH



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 (µH) ±20% @ 0A	Test Frequency	Irms (A)		Isat (A)		DCR (mΩ)		SRF (MHz) Ref.
			Typ.	@40°C	Typ.	Max.	Typ.	Max.	
CTXAL6030F-R18M	0.18	100KHz/0.1V	24.0	32.0	40.0	36.0	1.60	1.75	143
CTXAL6030F-R33M	0.33	100KHz/0.1V	20.0	25.0	32.0	28.0	2.25	2.50	78
CTXAL6030F-R56M	0.56	100KHz/0.1V	17.0	22.0	29.0	25.0	3.00	3.31	70
CTXAL6030F-1R0M	1.00	100KHz/0.1V	13.0	18.0	23.0	18.0	5.50	6.05	52
CTXAL6030F-1R2M	1.20	100KHz/0.1V	12.0	16.0	22.0	16.0	6.70	7.40	47
CTXAL6030F-1R8M	1.80	100KHz/0.1V	10.0	14.0	18.2	13.0	9.20	10.2	33
CTXAL6030F-2R2M	2.20	100KHz/0.1V	7.00	10.0	15.9	11.0	11.0	12.2	29
CTXAL6030F-3R3M	3.30	100KHz/0.1V	6.00	8.00	12.2	9.00	18.8	20.8	25
CTXAL6030F-4R5M	4.50	100KHz/0.1V	5.00	7.00	10.0	8.00	23.0	25.3	20

PHYSICAL DIMENSIONS

Unit: mm

	A	B	C	D	E	F
CTXAL6030F-R18M	6.6±0.2	6.4±0.2	2.8±0.2	5.30	1.4±0.2	2.6±0.25
CTXAL6030F-R33M	6.6±0.2	6.4±0.2	2.8±0.2	5.55	1.4±0.2	2.6±0.25
CTXAL6030F-R56M	6.6±0.2	6.4±0.2	2.8±0.2	5.30	1.4±0.2	2.6±0.25
CTXAL6030F-1R0M	6.6±0.2	6.4±0.2	2.8±0.2	5.20	1.4±0.2	2.6±0.25
CTXAL6030F-1R2M	6.6±0.2	6.4±0.2	2.8±0.2	5.15	1.4±0.2	2.6±0.25
CTXAL6030F-1R8M	6.6±0.2	6.4±0.2	2.9±0.2	5.10	1.4±0.2	2.6±0.25
CTXAL6030F-2R2M	6.6±0.2	6.4±0.2	2.9±0.2	5.05	1.4±0.2	2.6±0.25
CTXAL6030F-3R3M	6.6±0.2	6.4±0.2	2.9±0.2	5.00	1.4±0.2	2.6±0.25
CTXAL6030F-4R5M	6.6±0.2	6.4±0.2	2.9±0.2	5.00	1.4±0.2	2.6±0.25

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)

Humidity Range: 85±2% RH

Irms: Will cause the coil temperature rise approximately Δt of 40°C (keep 1 min)

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

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

Storage Condition (component in its packaging):

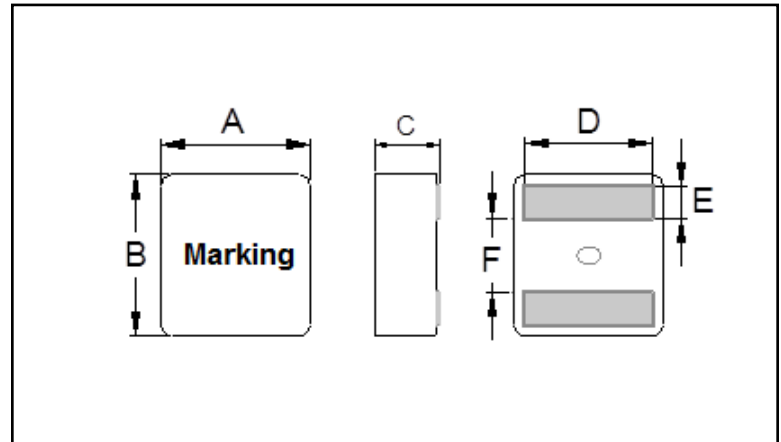
1. **Temperature:** Less than 40°C
2. **Humidity:** 60% RH

Packaging: Tape & Reel

Miscellaneous: RoHS Compliant

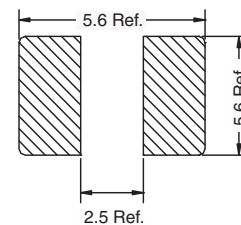
Additional Information: Additional electrical & physical information available upon request

Samples available. See website for ordering information.



PAD LAYOUT

Unit: mm



Notes:

- 1.) The above Pad Layout is for reference only
- 2.) Solder paste thickness of 0.15mm and above is recommended