

CTXAL4020F Series

From 0.10µH to 2.2µH



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.**

SPECIFICATIONS

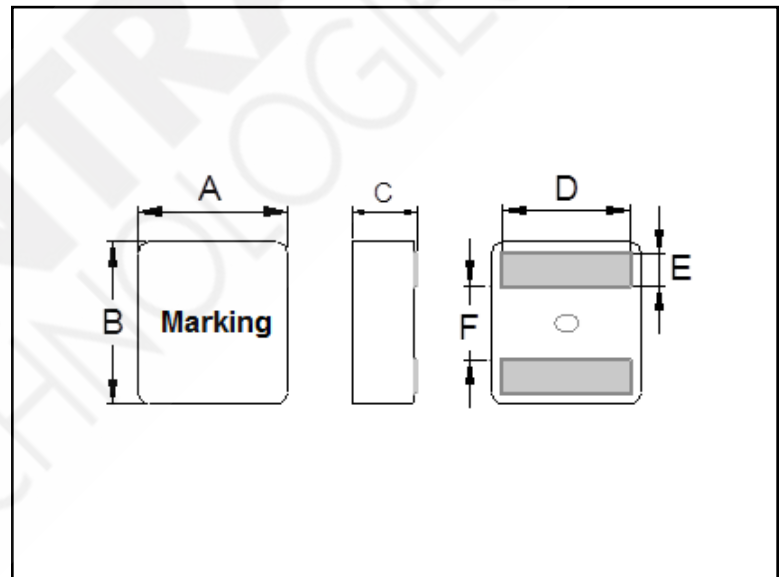
*Irms Typ. and Isat Typ. value is derived based from accounting the upper limit tolerance into the inductance value.

**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)	
			Typ. @20°C	@40°C	Typ.	Max.	Typ.	Max.
CTXAL4020F-R10M	0.10	100KHz/0.1V	13.5	18.0	38.0	33.0	2.20	2.42
CTXAL4020F-R22M	0.22	100KHz/0.1V	13.0	16.8	19.5	18.8	4.10	4.60
CTXAL4020F-R36M	0.36	100KHz/0.1V	11.0	14.5	17.0	15.0	5.60	6.30
CTXAL4020F-R40M	0.40	100KHz/0.1V	10.0	14.0	15.5	13.5	6.90	7.73
CTXAL4020F-R56M	0.56	100KHz/0.1V	8.5	12.0	14.0	12.6	8.40	9.30
CTXAL4020F-R60M	0.60	100KHz/0.1V	8.0	11.7	13.7	12.3	8.60	9.52
CTXAL4020F-R72M	0.72	100KHz/0.1V	7.6	10.5	12.0	10.6	10.40	11.60
CTXAL4020F-1R0M	1.00	100KHz/0.1V	6.8	9.6	9.6	8.8	13.30	14.60
CTXAL4020F-1R2M	1.20	100KHz/0.1V	6.6	9.0	9.0	7.8	16.20	17.90
CTXAL4020F-1R5M	1.50	100KHz/0.1V	5.8	7.6	8.0	7.4	21.00	23.50
CTXAL4020F-1R8M	1.80	100KHz/0.1V	5.2	7.0	7.5	7.0	25.00	28.00
CTXAL4020F-2R2M	2.20	100KHz/0.1V	4.6	5.6	6.5	6.0	35.20	38.70

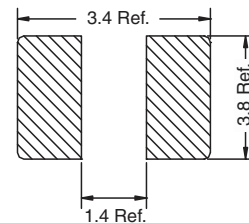
PHYSICAL DIMENSIONS

Size	A	B	C	D	E	F
mm	4.1±0.2	4.1±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25
inches	0.16±0.008	0.16±0.008	0.07±0.008	0.13±0.012	0.03±0.008	0.06±0.010



PAD LAYOUT

Unit: mm



Notes:

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