

Power Inductor

Single Winding, SMD CTX01-16025



SMD Device

Description:

- 150°C maximum total operating temperature
- 17.7 x 12.85 x 7.55mm maximum surface mount package
- Amorphous core material
- Closed magnetic path reduces EMI
- RoHS compliant
- Rugged mounting

Applications

- DC-DC converters
- Battery power
- Automotive systems
- Notebook/Desktop power
- Differential mode inductor
- Buck and boost converter

Environmental Data

- Storage temperature range: -40°C to +150 °C
- Operating temperature range: -40°C to +150°C (Range is application specific)

RoHS 2002/95/EC

• Solder reflow temperature: +260°C maximum for 10 seconds maximum

Product Specifications						
Part Number	Rated Inductance(µH)	OCL ⁽¹⁾ ± 25% (μH)	Irms ⁽²⁾ Amps	I _{sat⁽³⁾ Amps}	$DCR^{\scriptscriptstyle{(4)}}$ $\mathbf{\Omega}$ Typ.	$DCR^{\scriptscriptstyle{(4)}} \mathbf{\Omega}$ Max.
CTX01-16025	120	120	2.0	1.7	0.052	0.062

(1) Open circuit inductance test parameters: 100kHz, 0.10V, 0.0Adc, tolerance is $\pm 25\%$

(2) I_{rms}: DC current for an approximate ∆T of 30°C without core loss. Derating is necessary for AC currents. PCB layout, trace thickness and width, air-flow, and proximity of other heat generating components will affect the temperature rise. It is recommended that the temperature of the part not exceed 150°C under worst case operating conditions verified in the end application.

(3) $\mathrm{I}_{sat}\,\mathrm{Amps}$ peak for approximately 30% rolloff @25°C

(4) DCR limits @ 20°C.

Dimensions - mm





Packaging Information - mm



Inductance Characteristics



OCL vs Isat

North America

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