

Product Top Page VLCF4018T-330MR42-2 📜 Buy Now Commercial Grade Applications PDF file of this page Wire Wound Wire Wound Feature Magnetic Shield Ferrite Core Ferrite Core Series | Type VLCF Documents Catalog Production Status RoHS Certificate TDK Brand SVHC / REACH Certificate [Selection Guide] Inductors for Power Circuits Images are for reference only and show (Automotive Grade) example products. [Selection Guide] Inductors for Power Circuits

## (Commercial Grade) [Application Note] How to Use Power Inductors [Application Note] Selection Guide for Power Inductors in Consideration of Leakage Flux 4.00mm ±0.10mm [Solution Guide] Solutions for silencing DC-DC 4.00mm ±0.10mm converters - Measures Against Acoustic Noise in Power Inductors 1.80mm Max. 1.60mm Nom. Technical Support Tools S-parameter

SPICE Netlist (Simple)

Equivalent Circuit Model

DC Bias / Superimpotision Model (HSpice)

DC Bias / Superimpotision Model (LTSpice)

DC Bias / Superimpotision Model (PSpice)

1.30mm Nom. 2.50mm Nom.

-40 to 105°C

Embossed (Plastic)Taping [180mm Reel]

Impedance

14

Frequency/Hz

Change settings

Rac

14

Frequency/Hz

Change settings

Inductance

14

Frequency/Hz

Change settings

Q

14

Frequency/Hz

Change settings

DC Bias Characteristic

0.0

DC/A

Change settings

Temperature Characteristic

80

Temperature/°C

VLCF4018T-330MR42-2(DC Bias = 0.21A)

Change settings

Temperature Rise by DC

DC/A

Change settings

104

104

1004

1004

1004

7G

104

104

1004

100

7G

7G

7G

Reflow

1000pcs

0.106g

10k

1k

100

1000m

100m

VLCF4018T-330MR42-2

100k

10k

1k

100

10

1000m

100m

Inductance/H

VLCF4018T-330MR42-2

14

VLCF4018T-330MR42-2

100

10

14

VLCF4018T-330MR42-2

35µ

30µ

25µ

10µ

37μ

36µ

35µ

32µ

31µ

8

VLCF4018T-330MR42-2(No Bias)

Inductance/H

Temperature Rise/°C

> Search by Part No.

VLCF4018T-330MR42-2(Amb. Temp. = 20 °C)

0

.50

VLCF4018T-330MR42-2(Amb. Temp. = 20 °C)

I

Inductance

104

Impedance/Ω

NO

Size

Length(L) Width(W) Thickness | Height Recommended Land Pattern (A) Recommended Land Pattern (B) Recommended Land Pattern (C)

3.90mm Nom.

Recommended Land Pattern (D)

33µH ±20% at 100kHz 420mA (30% Down) 740mA (40°C Rise)

Inductance Rated Current (L Change) [Typ.] Rated Current (L Change) [Max.] Rated Current (Temperature Rise) [Typ.] Rated Current (Temperature Rise) [Max.]

**Electrical Characteristics** 469mΩ

540mΩ

DC Resistance [Typ.] DC Resistance [Max.] Self Resonant Frequency [Min.]

Self Resonant Frequency [Typ.] Q [Min.] Q [Typ.] Other Operating Temp. Range (Including Self-Temp. Rise)

Soldering Method AEC-Q200 Packing

Package Quantity Weight

Characteristic Graph (This is reference data, and does not guarantee the products characteristics.)

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C1005JB0J225K050BC

Capacitance=2.2µF

LxWxT:1x0.5x0.5mm

Edc=6.3V

T.C.=JB

General

Multilayer Ceramic Chip Capacitors

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