SMD / SMT Inductors (Coils)

CLF7045T-2R2N-D

Product Status	EOL Announced Recommended Alternate Part No. : CLF6045NIT-2R2N-D (Interchangeability is not guaranteed.) Discontinue Issue Date : May.14, 2024 Last Purchase Order Date : Mar.31, 2026 Last Shipment Date : Dec.31, 2026
Applications	Automotive Grade
Feature	AEC-Q200AEC-Q200 Wire WoundWire Wound ShieldMagnetic Shield Ferrite CoreFerrite Core
Series | Type	CLF-D
Brand	TDK
Environmental Compliance	RoHS REACH Lead Free



Size	
Length(L)	7.20mm ±0.20mm
Width(W)	6.90mm ±0.20mm
Thickness | Height	4.50mm ±0.30mm
Recommended Land Pattern (A)	2.00mm Nom.
Recommended Land Pattern (B)	3.90mm Nom.
Recommended Land Pattern (C)	2.20mm Nom.

Electrical Characteristics	
Inductance	2.2µH ±30% at 100kHz
Rated Current (L Change) [Typ.]	5.5A (10% Down)
Rated Current (L Change) [Max.]	
Rated Current (Temperature Rise) [Typ.]	4.3A (30°C Rise)
Rated Current (Temperature Rise) [Max.]	
DC Resistance [Typ.]	14.6mΩ
DC Resistance [Max.]	18.98mΩ
Rated Voltage [Max.]	
Self Resonant Frequency [Min.]	
Self Resonant Frequency [Typ.]	
Q [Min.]	
Q [Typ.]	

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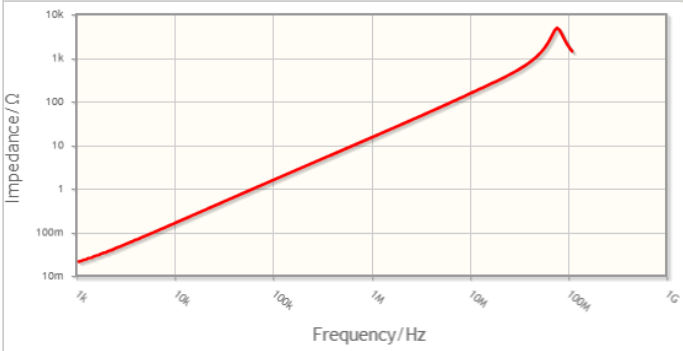
Other	
Operating Temp. Range	-40 to 150°C (Including Self-Temp. Rise)
Soldering Method	Reflow Iron Soldering
AEC-Q200	YES
Packing	Punched (Paper)Taping [330mm Reel]
Package Quantity	1000pcs
Weight	0.8g
FIT (Failure In Time)	This will be displayed when you login to myTDK

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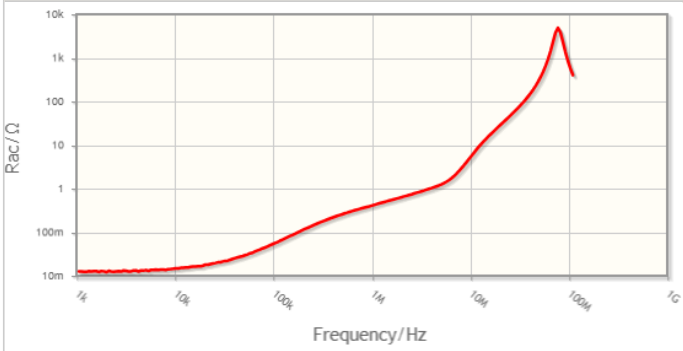
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



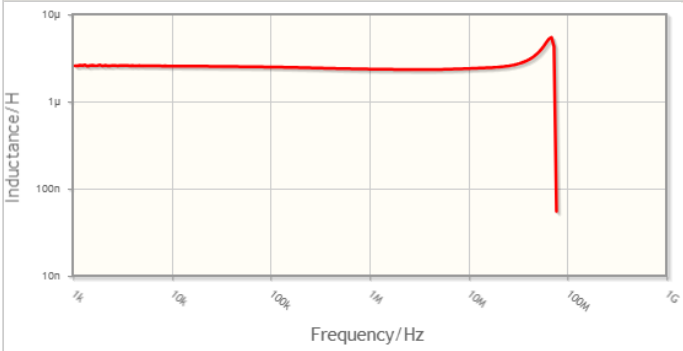
CLF7045T-2R2N-D

Rac



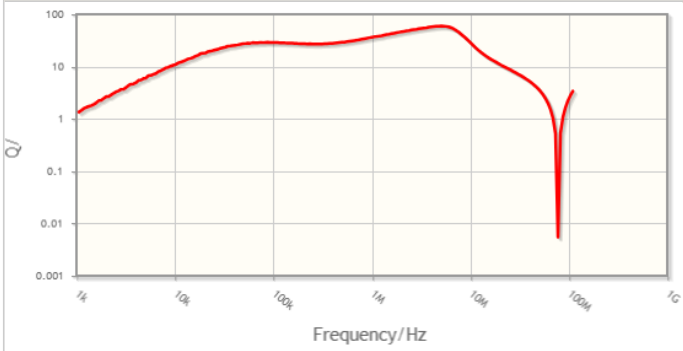
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Inductance



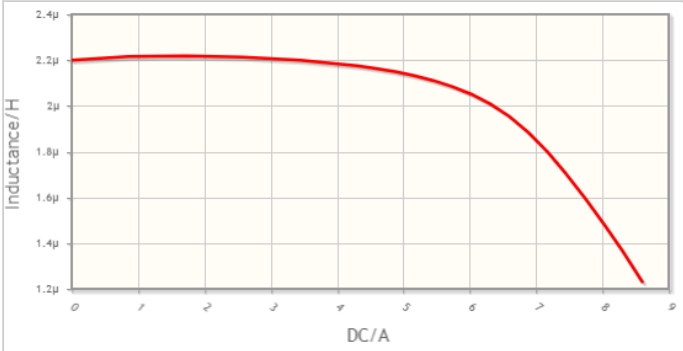
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Q



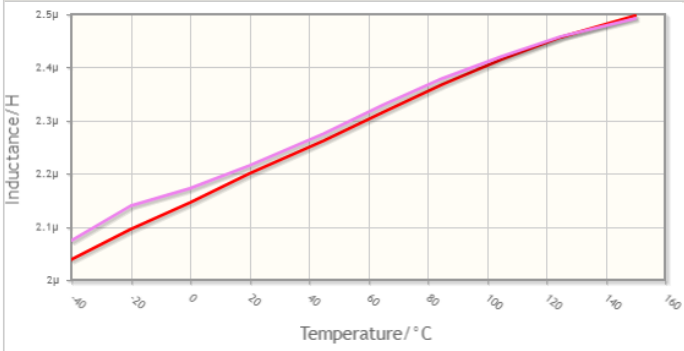
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DC Bias Characteristic



CLF7045T-2R2N-D (Amb. Temp. = 20 °C)

Temperature Characteristic

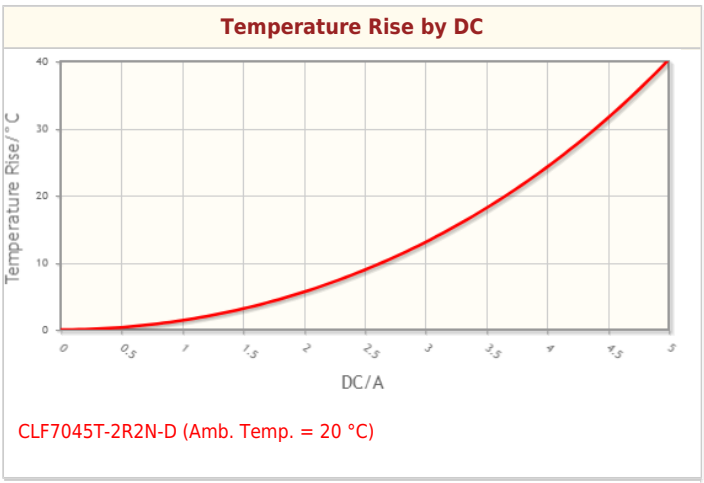


CLF7045T-2R2N-D(No Bias) CLF7045T-2R2N-D(DC Bias = 2.15A)

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



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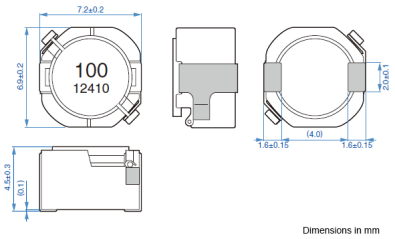
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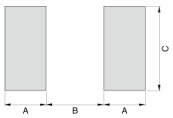
Associated Images

Shapes and Dimensions



Dimensions in mm

Land Pattern (Terminal Connection)



Dimensions in mm

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