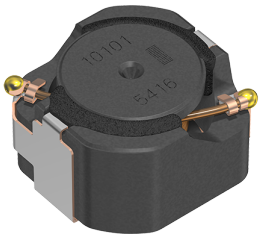
Creation Date : January 19, 2017 (GMT)

Inductors (Coils)

CLF12577NIT-221M-D

RoHS | REACH SVHC-Free | Halogen Free | Lead Free

Applications	Automotive Grade
Feature	AEC-Q200 AEC-Q200 Wire Wound Wire Wound Shield Magnetic Shield Ferrite Core Ferrite Core
Series	CLF-NI-D
Status	Production



Size	
Length(L)	12.80mm ±0.30mm
Width(W)	12.50mm ±0.30mm
Thickness(T)	7.70mm ±0.30mm
Recommended Land Pattern (A)	4.50mm Nom.
Recommended Land Pattern (B)	6.20mm Nom.
Recommended Land Pattern (C)	4.20mm Nom.

Electrical Characteristics	
Inductance	220µH ±20% at 100kHz
Rated Current (L Change) [Typ.]	1.95A (30% Down)
Rated Current (L Change) [Max.]	1.55A (30% Down)
Rated Current (Temperature Rise) [Typ.]	1.6A (40°C Rise)
Rated Current (Temperature Rise) [Max.]	
DC Resistance [Typ.]	280mΩ
DC Resistance [Max.]	336mΩ
Self Resonant Frequency [Min.]	
Self Resonant Frequency [Typ.]	
Q [Min.]	
Q [Typ.]	

Other	
Operating Temp. Range (Including Self-Temp. Rise)	-55 to 150°C
Soldering Method	Reflow Iron Soldering
AEC-Q200	Yes
Packing	Blister (Plastic)Taping [330mm Reel]
Package Quantity	500pcs
Weight	4g

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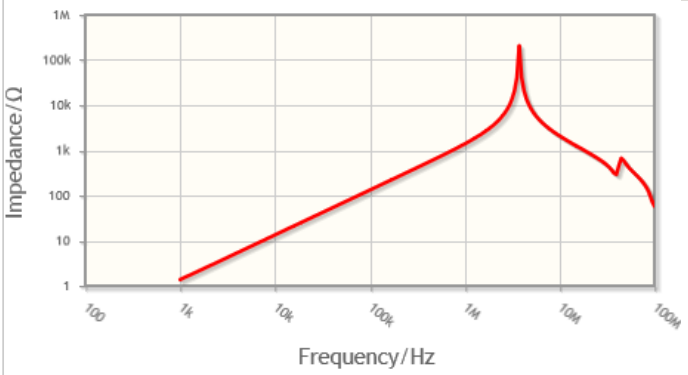
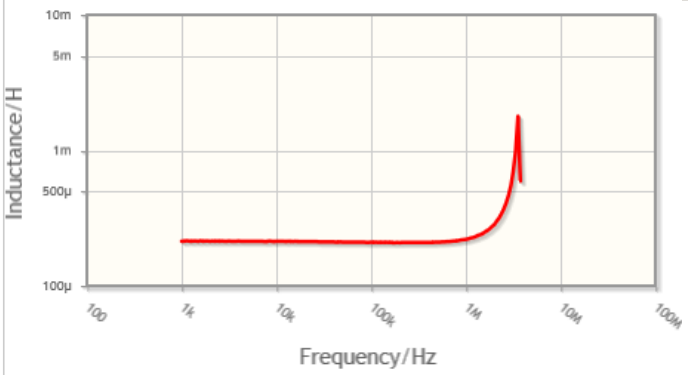
Characteristic Graphs(This is reference data, and does not guarantee the products characteristics.)

Impedance



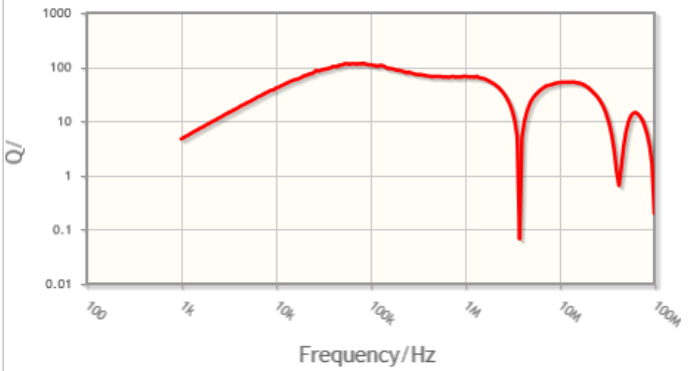
CLF12577NIT-221M-D

Inductance



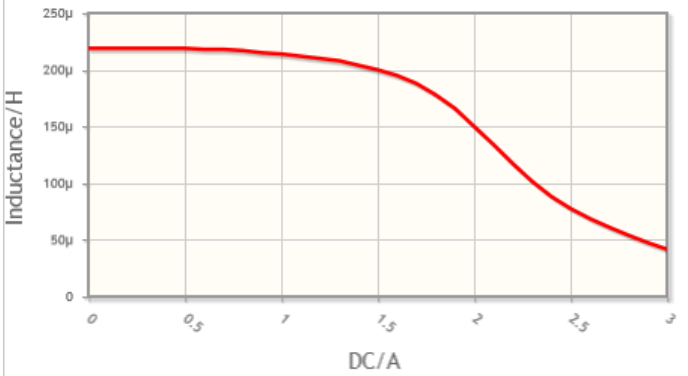
CLF12577NIT-221M-D

Q



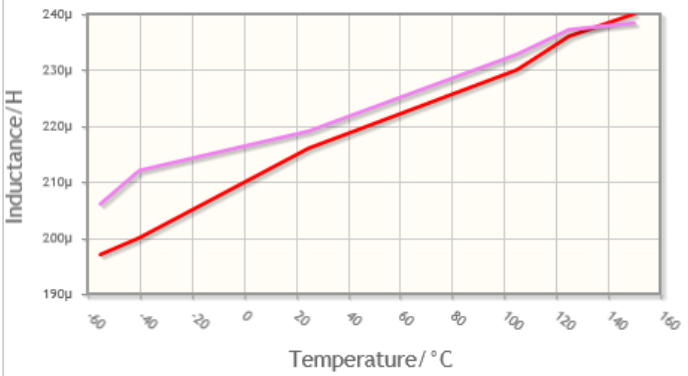
CLF12577NIT-221M-D

DC Bias Characteristic



CLF12577NIT-221M-D (Amb. Temp. = 20 °C)

Temperature Characteristic



CLF12577NIT-221M-D(No Bias) CLF12577NIT-221M-D(DC Bias = 0.5A)

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Inductors (Coils)

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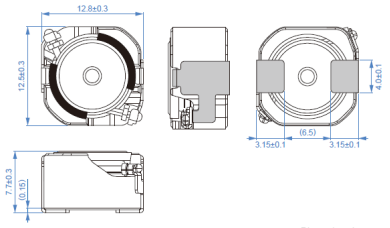
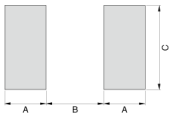
Associated Images

Shapes and Dimensions



Dimensions in mm

Land Pattern (Terminal Connection)



Dimensions in mm

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