

CLF-NI-D Series Power Inductors

Wound Ferrite Inductors for Power Circuits



TDK's CLF-NI-D Series Inductors are magnetically shielded, wire wound power inductors. This new product is qualified to AEC-Q200. Thanks to TDK's advanced materials technology, the new components feature outstanding heat resistance. A new bonding process for the terminals enables a solderless structural design that features improved mechanical strength. The fully automated manufacturing process ensures high reliability and quality of these components.

Features

- AEC-Q200 compliant
- Magnetically shielded
- Wire wound with a ferrite core
- Operating temperature range of -55°C to $+150^{\circ}\text{C}$
- Storage temperature range of -55°C to $+150^{\circ}\text{C}$ after the circuit board is mounted

Ferrite Core

Automotive

Wire Wound



Applications

- ECM
- Headlights
- Meters
- Airbags
- Electronic Power Steering
- ABS

CLF-NI-D Series Information

Series	Case Size (mm)	Height (mm)	Inductance Range (μH)	DC Resistance (Ω) max.	Saturation Current (A)	Quantity per Reel
CLF6045NI-D	6.0 x 6.0	4.5	1.0-470	0.011 \pm 30% - 1.3 \pm 20%	6.7-0.28	1,000
CLF7045NI-D	7.0 x 7.0	4.5	1.0-470	0.009 \pm 30% - 1.2 \pm 20%	8.5-0.41	1,000

Part Number Breakdown

CLF7045NI	T	-	1R0	N	-	D
Series name	Packaging style		Inductance (μH)	Inductance tolerance		Internal code
	T Taping		1R0 1.0 100 10 101 100	M \pm 20% N \pm 30%		