

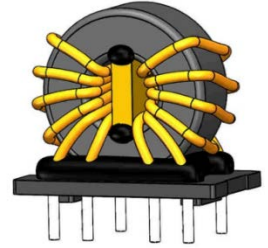


DCN121107A Series



1. Features of DCN121107A Series :

- 29.5 × 18.0mm Max.(LxW),27.5mm Max. Height.
- Inductance range: 315.0uH~875.0uH,Custom values are welcomed.
- AC common mode noise filter for Power Supplies and Lighting Application.
- Rated Voltage: 300VAC.
- Dielectric strength:2100Vrms,winding to winding.
- UL 94 V-0 Material.
- Operating temperature: -55 to +125°C.
- RoHS Compliant Components.



2. Electrical Characteristics of DCN121107A Series:

ITG Part Number	OCL ¹ (Pin1,2~8,7/ Pin3,4~6,5)	OCL ¹ L1-L2	DCR	Irated ²
	(uH)	(uH)	(mΩ)	(A)
	Min.	Max.	Max. @25°C	Max.
DCN121107A-311Y	315.0	210.0	0.95	36.0
DCN121107A-561Y	560.0	270.0	1.7	26.0
DCN121107A-871Y	875.0	330.0	2.9	20.0

Notes:

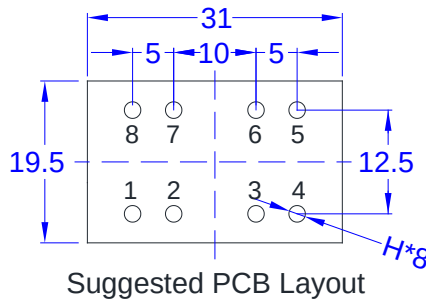
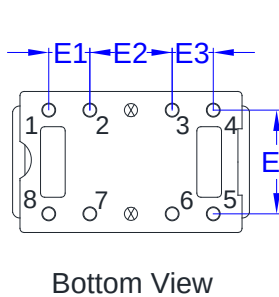
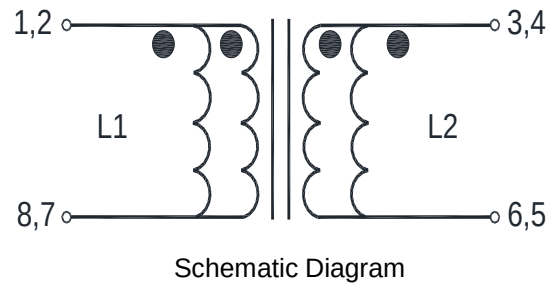
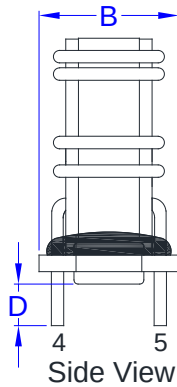
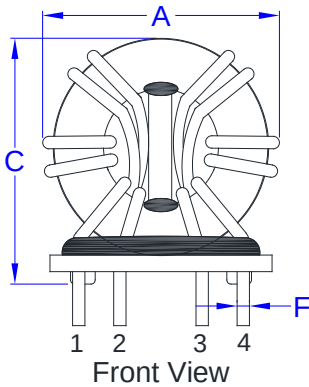
1. Open Circuit Inductance (OCL) measured at 10KHz,0.1mA @ 25°C.
2. Irated: Irate is defined as the applied current level that cause 40 °C temperature rise without force air flow.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision A.0: May 27, 2025

**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*

3. Mechanical Dimension of DCN121107A Series (Unit:mm):

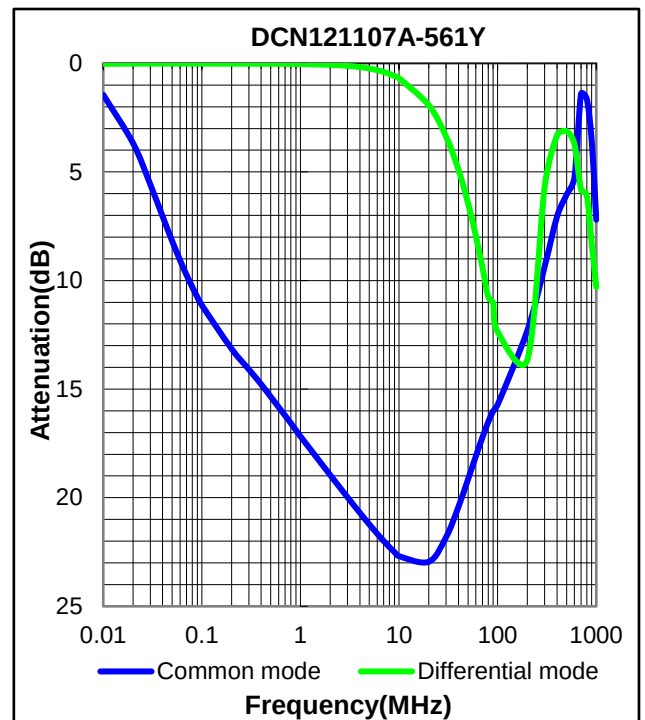
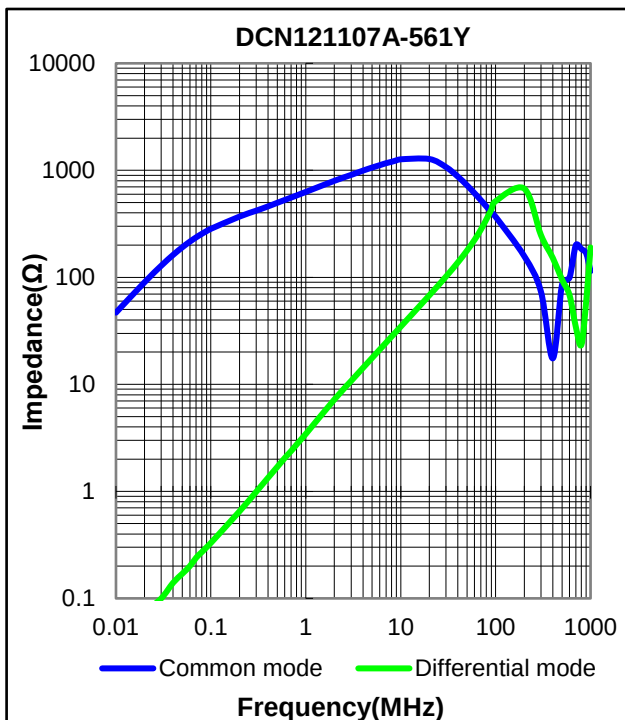
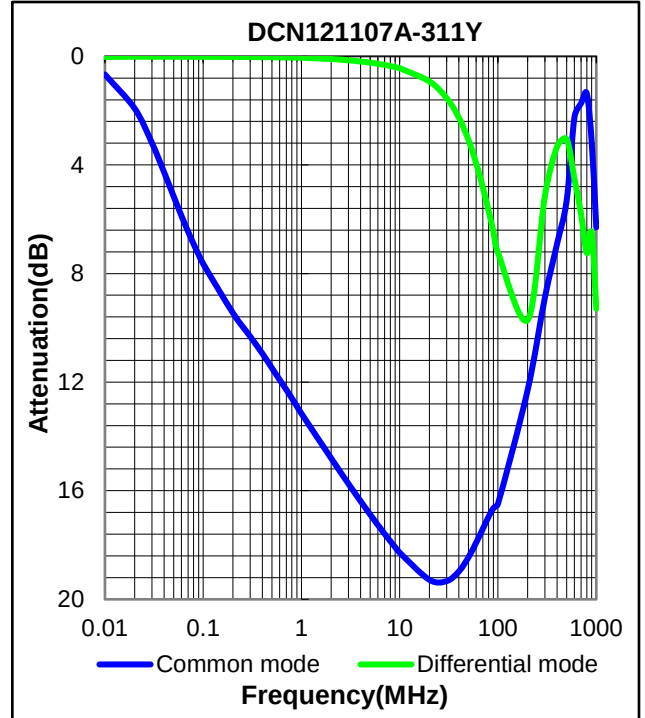
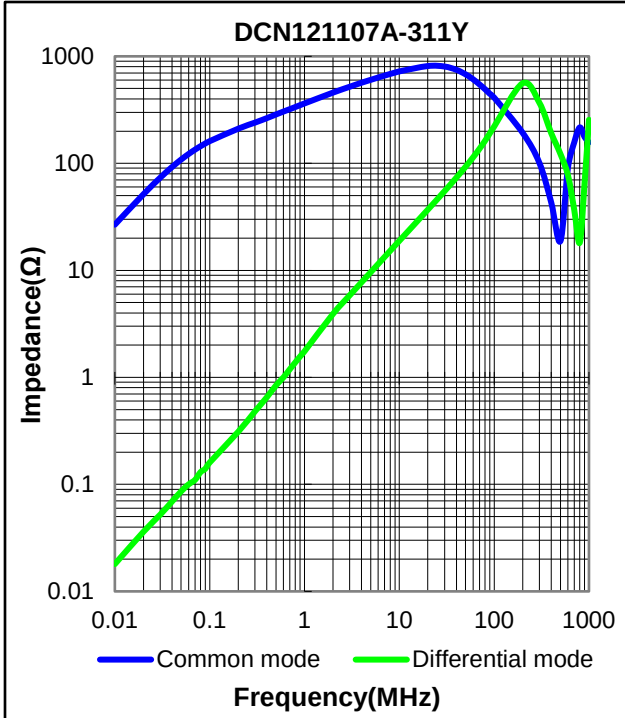
ITG Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ±0.5	Dim. E1 (mm) ±0.5	Dim. E2 (mm) ±0.5	Dim. E3 (mm) ±0.5	Dim. E4 (mm) ±0.5	Dim. F (mm) ±0.1	Dim. H (mm) Ref.
DCN121107A-311Y	29.5	18.0	27.5	5.0	5.0	10.0	5.0	12.5	Φ1.4	Φ1.9
DCN121107A-561Y	29.0	18.0	27.5	5.0	5.0	10.0	5.0	12.5	Φ1.2	Φ1.7
DCN121107A-871Y	29.0	18.0	27.5	5.0	5.0	10.0	5.0	12.5	Φ1.0	Φ1.5



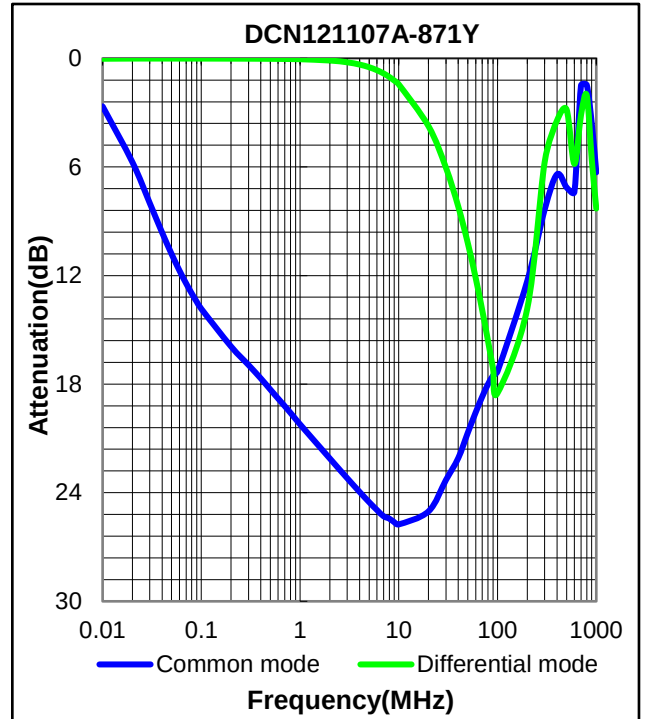
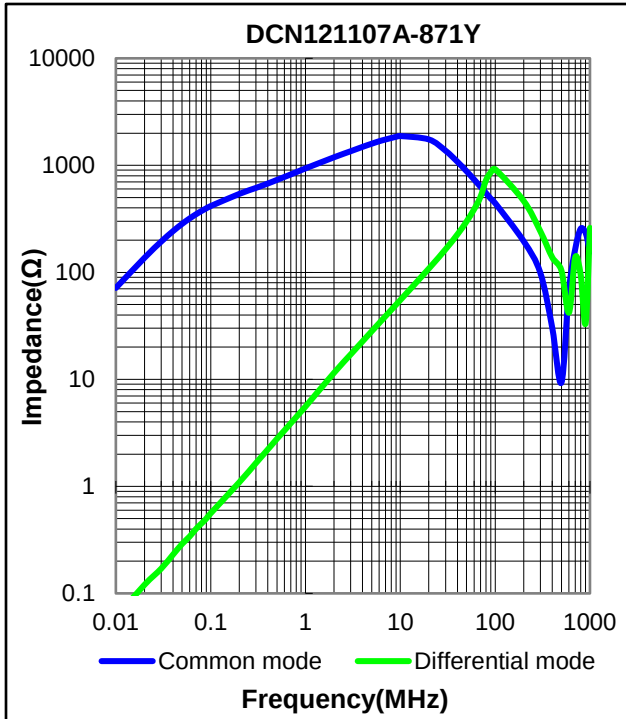
Note:

PIN 1 & PIN 2 to be connected, PIN 3 & PIN 4 to be connected, PIN 8 & PIN 7 to be connected, PIN 6 & PIN 5 to be connected, in parallel on the PC board.

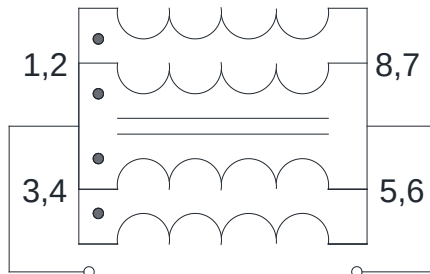
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCN121107A Series :



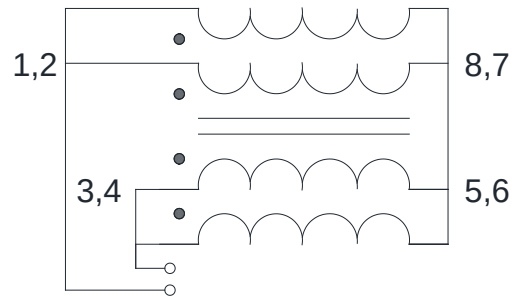
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCN121107A Series :



Test setup



Common Mode



Differential Mode