

1. Features of DCM131307A Series :

- 32.0 × 18.5mm Max.(L×W),32.0mm Max. Height.
- Inductance range: 0.25mH ~ 2.3mH,Custom values are welcomed.
- AC common mode noise filter for Power Supplies and Lighting Application.
- Rated Voltage: 250VAC.
- Dielectric strength:1500Vrms,winding to winding.
- UL 94 V-0 Material.
- Operating temperature: -40 to +125°C.
- RoHS & HF Compliant Components.



2. Electrical Characteristics of DCM131307A Series :

ITG Part Number	OCL ¹ (Pin1,2~8,7/ Pin3,4~6,5)	OCL ¹ L1-L2	DCR	Irated ²
	(mH)	(uH)	(mΩ)	(A)
	± 30%	Max.	Max. @25°C	Max.
DCM131307A-251NHF	0.25	50.0	1.8	29.0
DCM131307A-451NHF	0.45	70.0	3.3	22.5

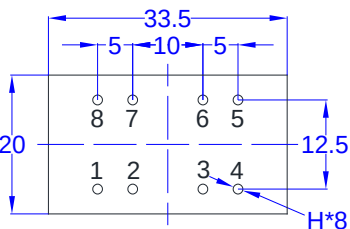
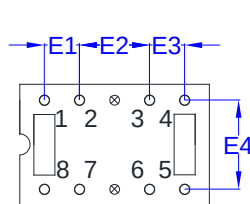
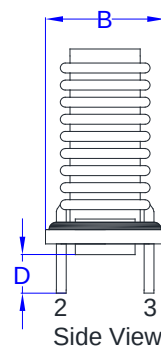
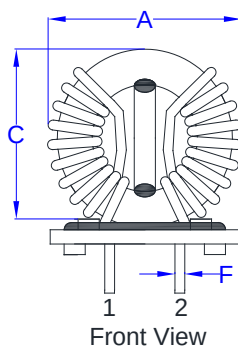
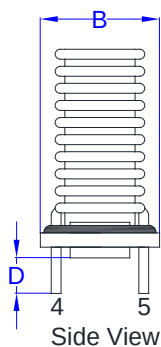
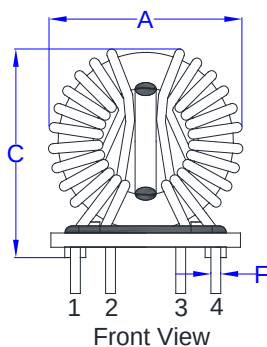
ITG Part Number	OCL ¹ (Pin1~4/2~3)	OCL ¹ L1-L2	DCR	Irated ²
	(mH)	(uH)	(mΩ)	(A)
	± 30%	Max.	Max. @25°C	Max.
DCM131307A-711NHF	0.71	80.0	5.5	16.5
DCM131307A-162NHF	1.6	90.0	11.1	11.5
DCM131307A-232NHF	2.3	100.0	15.6	9.5

Notes:

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

3. Mechanical Dimension of DCM131307A Series (Unit:mm):

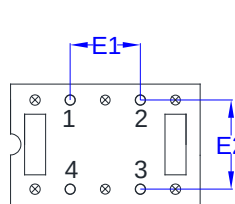
ITG Part Number	A (mm) Max.	B (mm) Max.	C (mm) Max.	D (mm) ±0.5	E1 (mm) ±0.5	E2 (mm) ±0.5	E3 (mm) ±0.5	E4 (mm) ±0.5	F (mm) ±0.1	H (mm) Ref.	Fig.
DCM131307A-251NHF	32.0	18.5	32.0	5.0	5.0	10.0	5.0	12.5	1.4	1.9	1
DCM131307A-451NHF	31.5	18.0	31.0	5.0	5.0	10.0	5.0	12.5	1.2	1.7	1
DCM131307A-711NHF	31.5	18.0	31.0	5.0	10.0	12.5	/	/	1.4	1.9	2
DCM131307A-162NHF	31.0	18.0	31.0	5.0	10.0	12.5	/	/	1.2	1.7	2
DCM131307A-232NHF	31.0	18.0	31.0	5.0	10.0	12.5	/	/	1.1	1.6	2



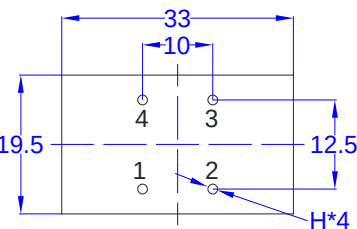
Bottom View

Suggested PCB Layout

Fig1.



Bottom View



Suggested PCB Layout

Fig2.

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.

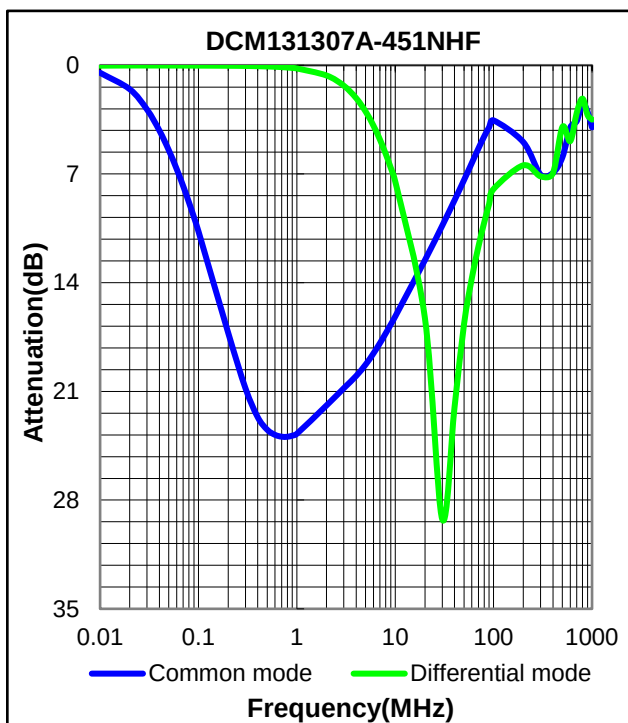
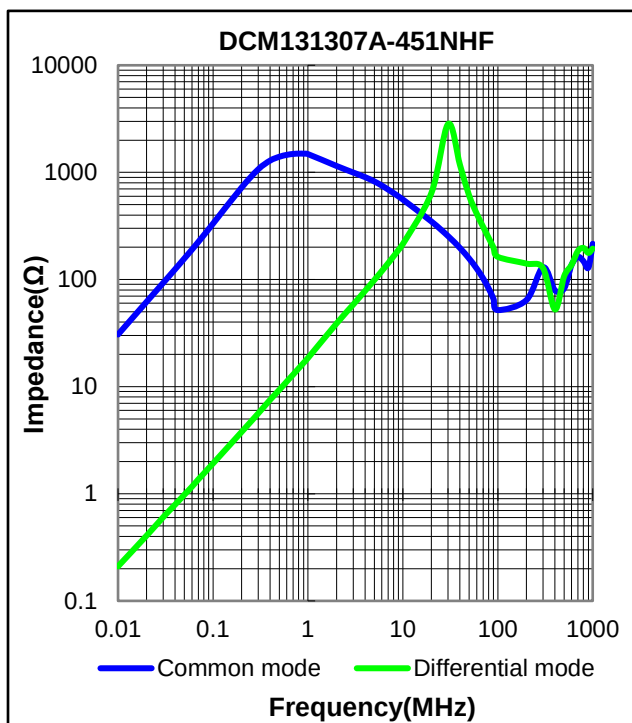
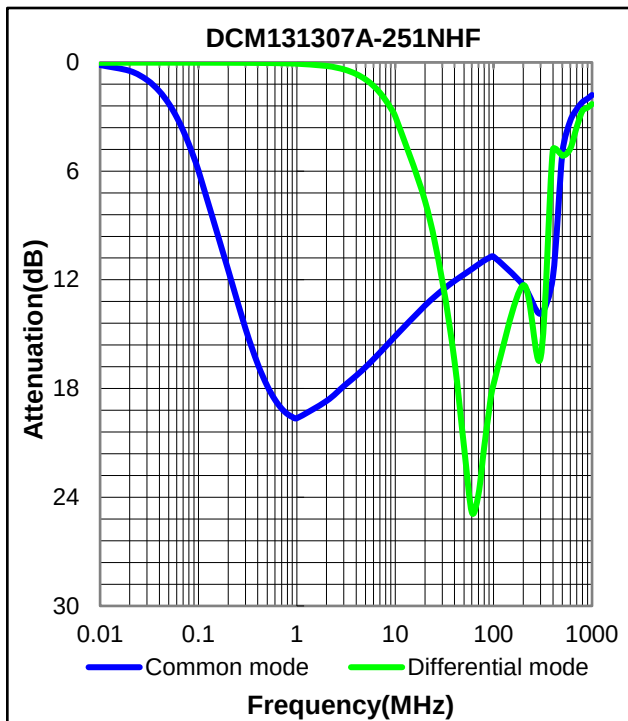
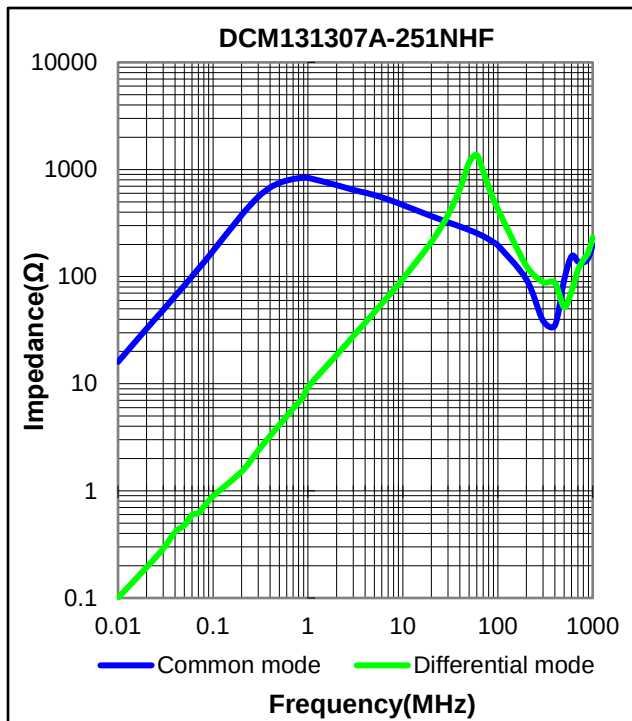
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● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

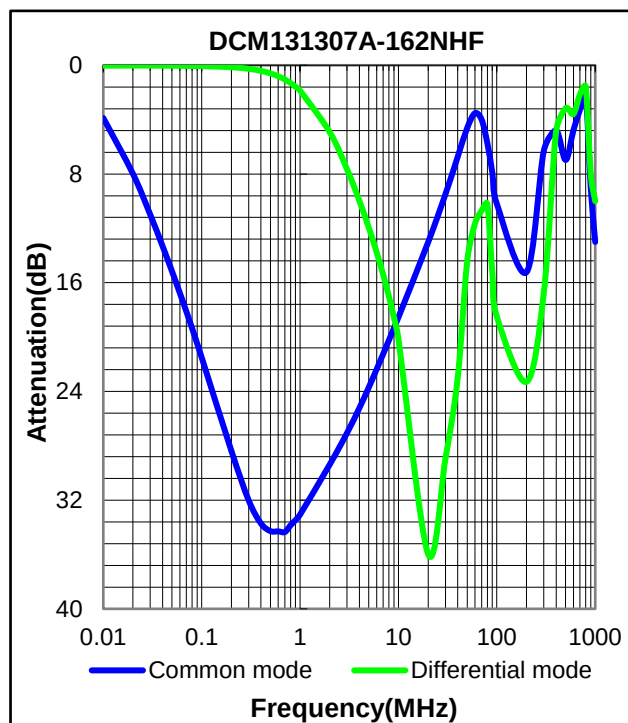
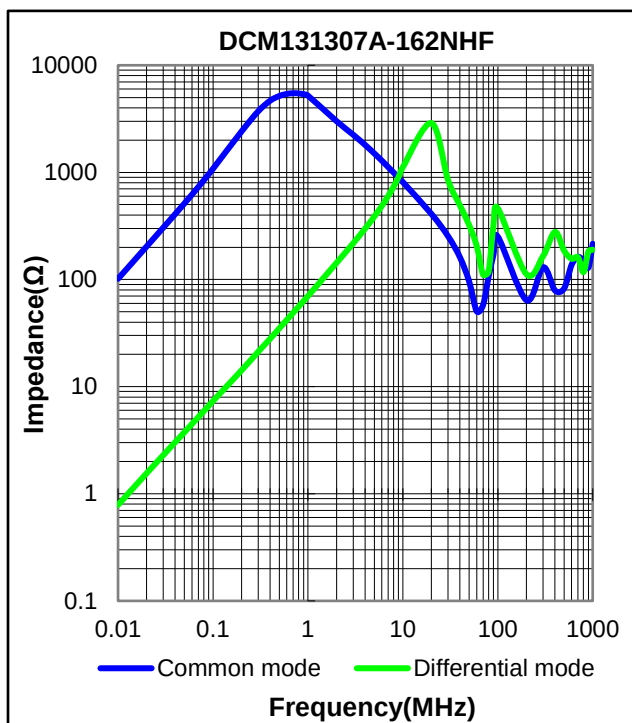
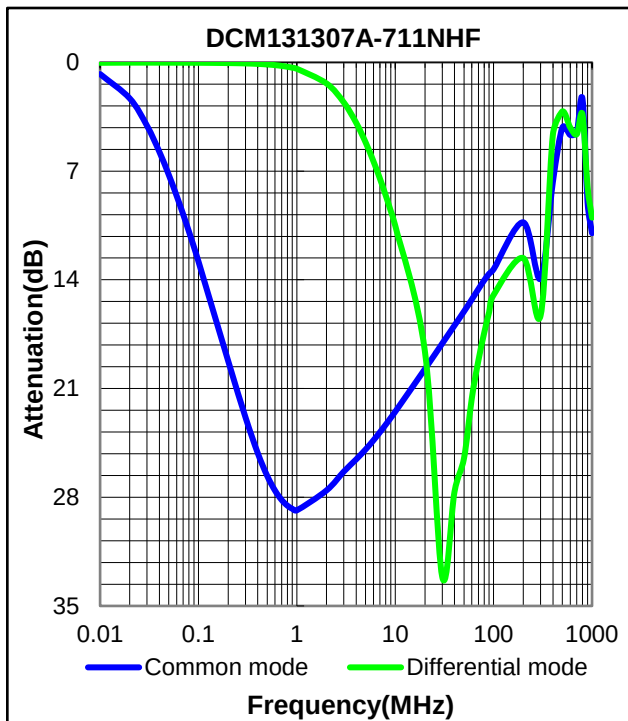
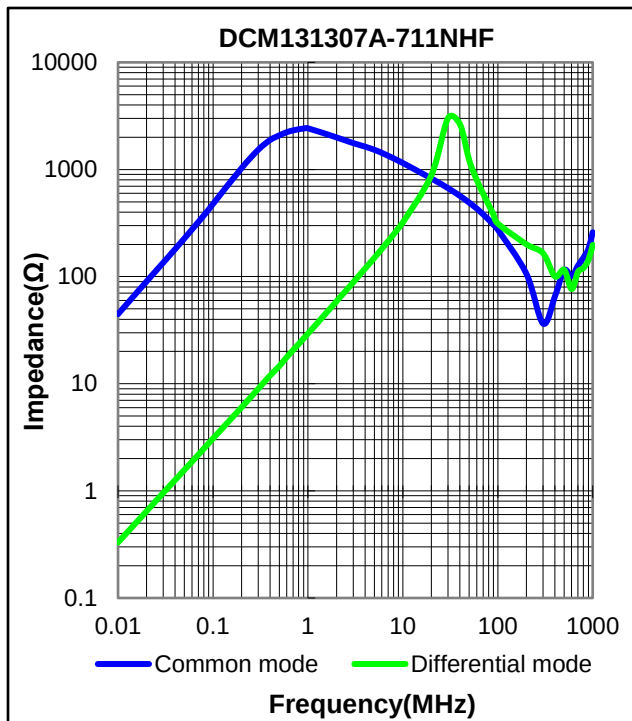
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*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

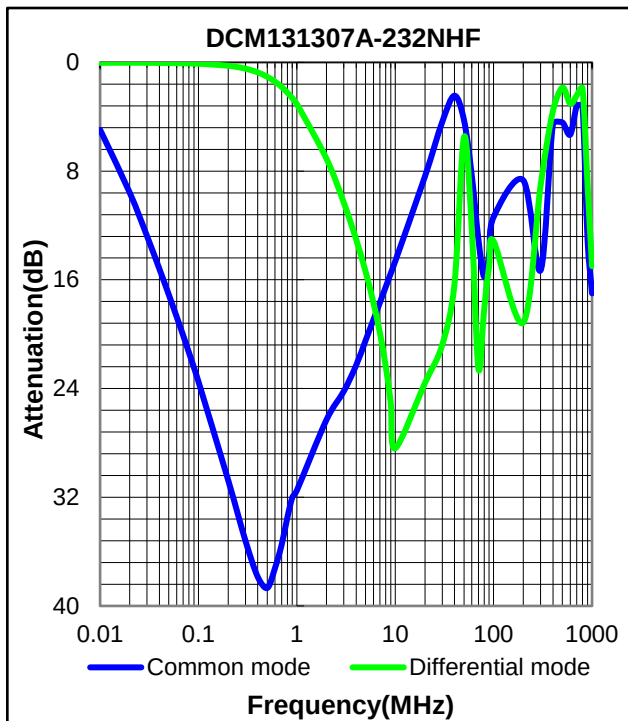
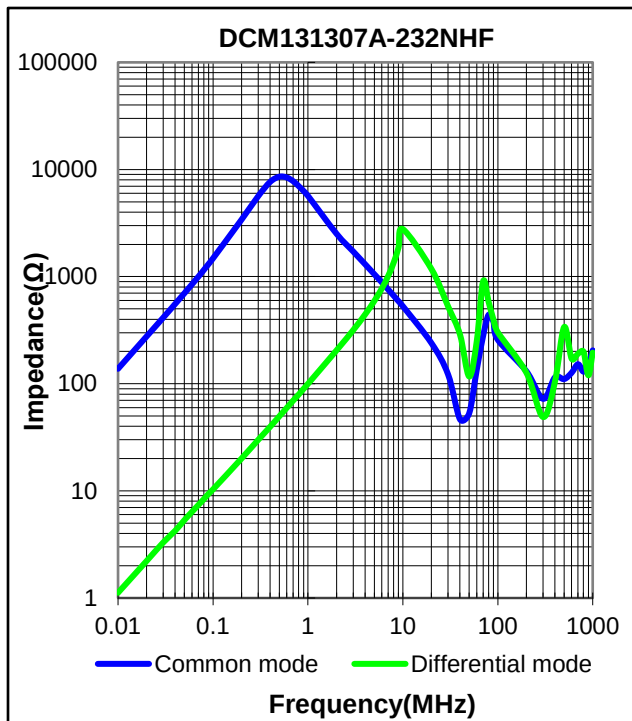
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM131307A Series :



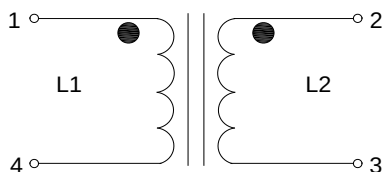
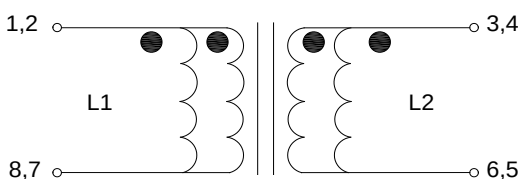
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM131307A Series :



4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM131307A Series :



Schematic diagram



Test setup

