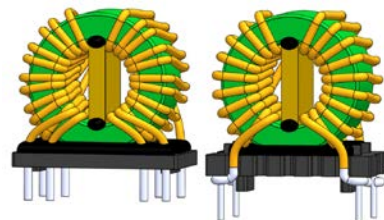


1. Features of DCM121409A Series :

- 31.5 × 23.0mm Max.(L×W),35.0mm Max. Height.
- Inductance range: 0.38mH ~ 33.0mH,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 DCM121409A 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.
DCM121409A-381NHF	0.38	60.0	3.0	23.0
DCM121409A-681NHF	0.68	80.0	4.2	18.5

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.
DCM121409A-102NHF	1.0	110.0	8.2	12.0
DCM121409A-222NHF	2.2	120.0	14.0	8.0
DCM121409A-332NHF	3.3	130.0	25.0	6.6
DCM121409A-502NHF	5.0	180.0	45.0	6.0
DCM121409A-103NHF	10.0	350.0	65.0	4.5
DCM121409A-203NHF	20.0	420.0	160.0	3.2
DCM121409A-333NHF	33.0	700.0	210.0	3.0

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.

3. Mechanical Dimension of DCM121409A 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.
DCM121409A-381NHF	31.5	23.0	31.5	5.0	4.0	17.0	4.0	15.0	Φ1.3	1.8	1
DCM121409A-681NHF	31.5	22.5	31.5	5.0	4.0	17.0	4.0	15.0	Φ1.2	1.7	1
DCM121409A-102NHF	31.0	22.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2
DCM121409A-222NHF	30.5	21.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2
DCM121409A-332NHF	30.5	21.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2
DCM121409A-502NHF	30.5	21.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2
DCM121409A-103NHF	30.5	21.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2
DCM121409A-203NHF	30.5	21.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2
DCM121409A-333NHF	30.5	21.0	35.0	5.0	25.0	15.0	/	/	Φ1.0	1.5	2

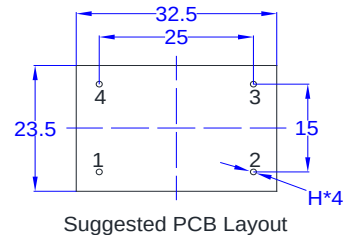
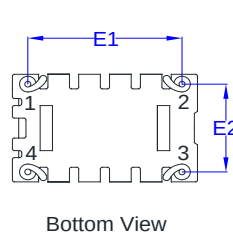
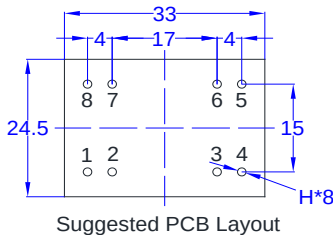
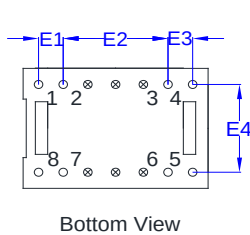
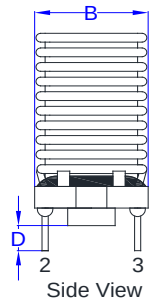
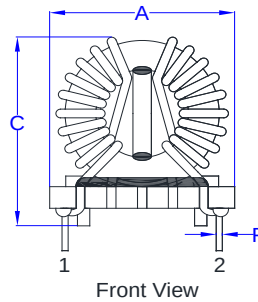
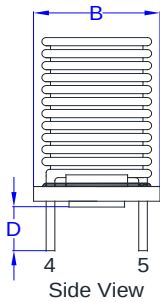
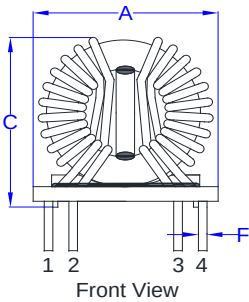


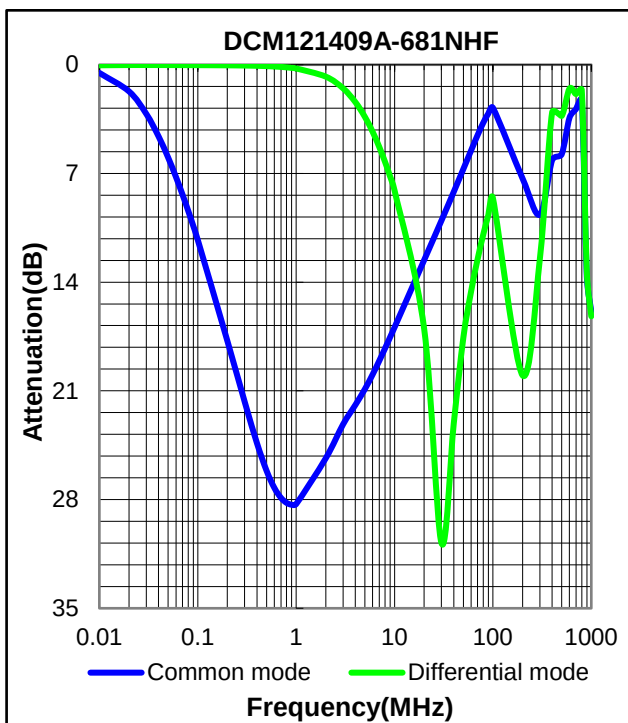
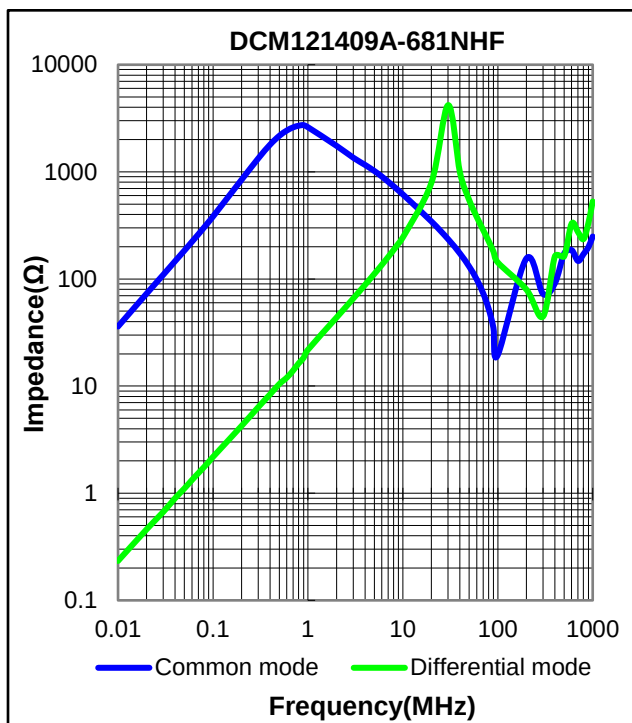
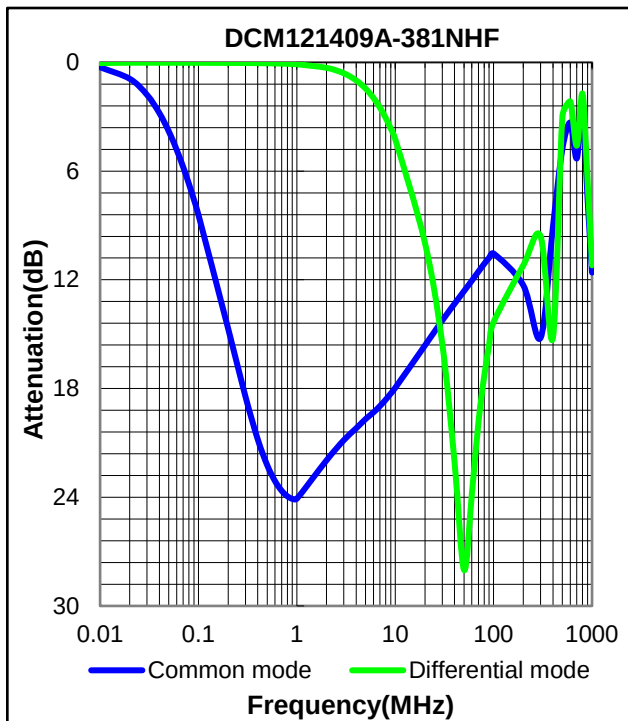
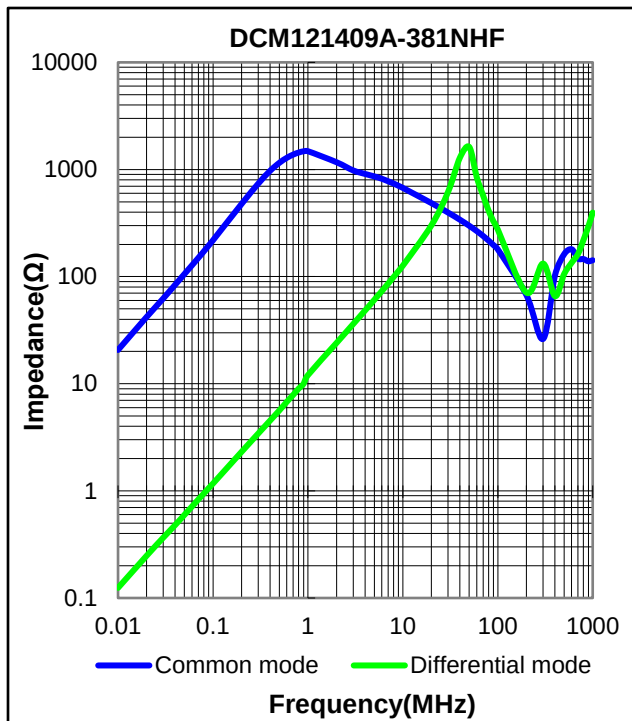
Fig1.

Fig2.

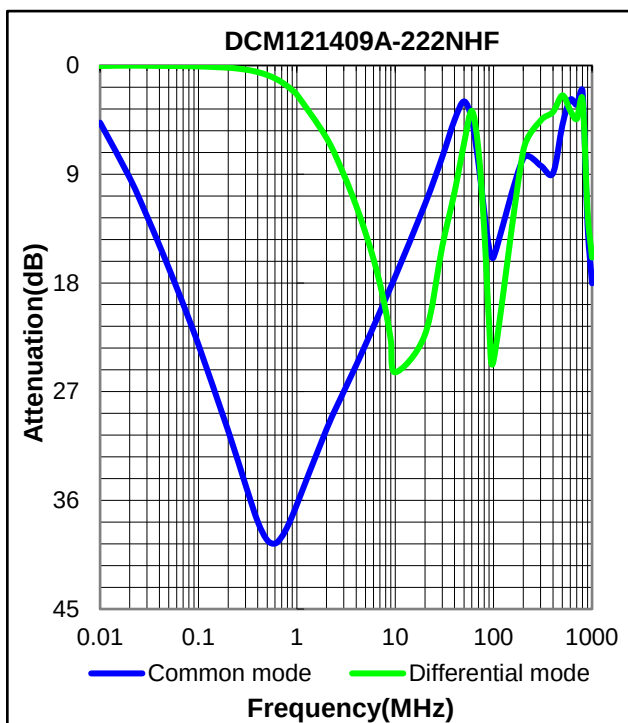
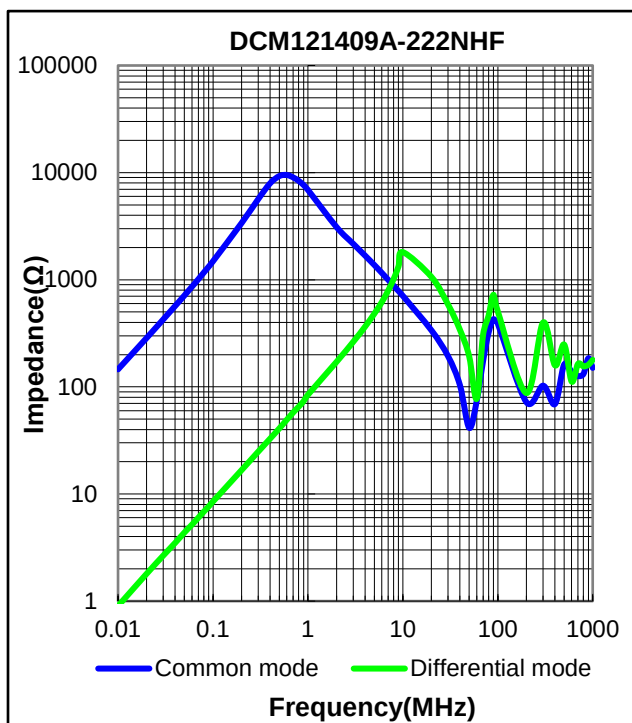
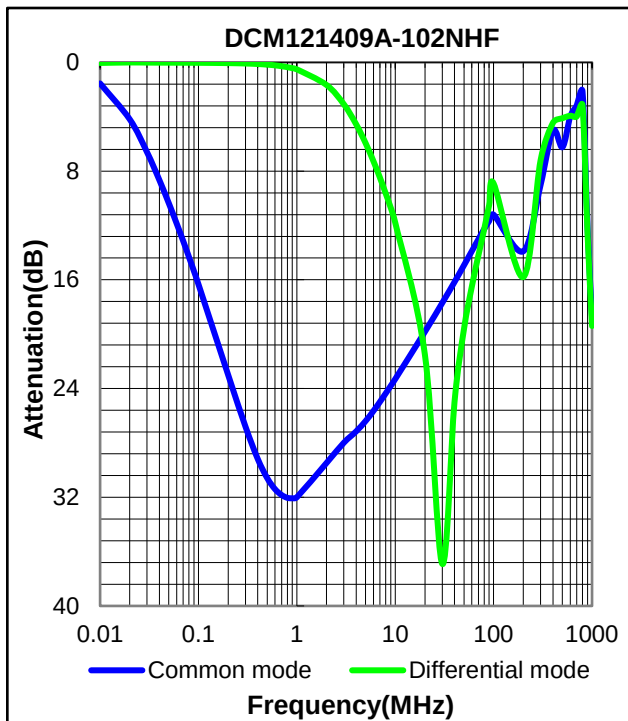
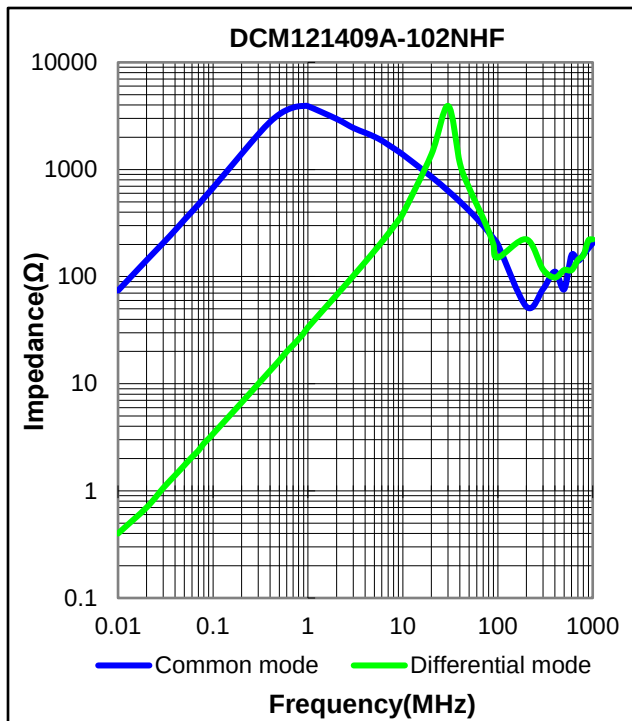
Note:

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.

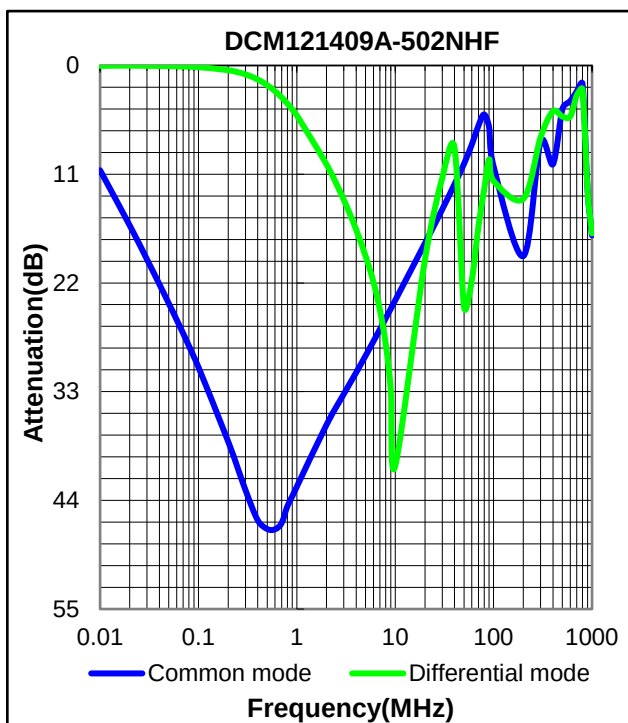
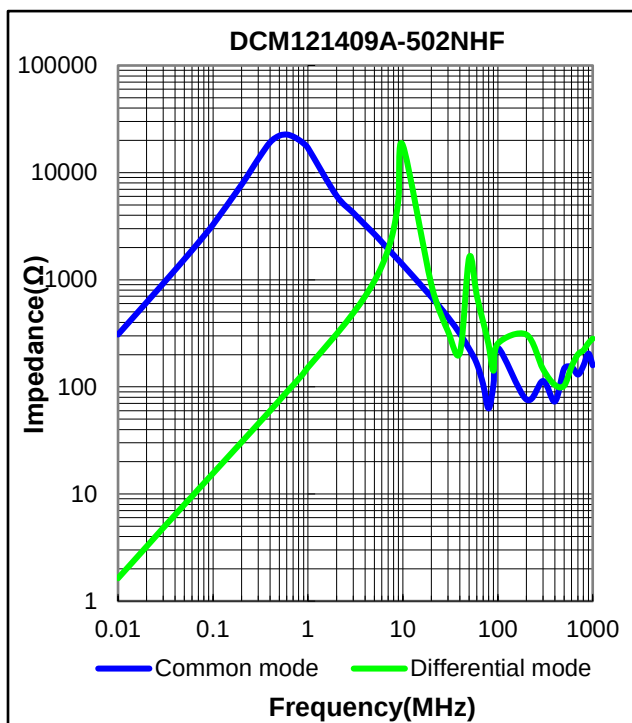
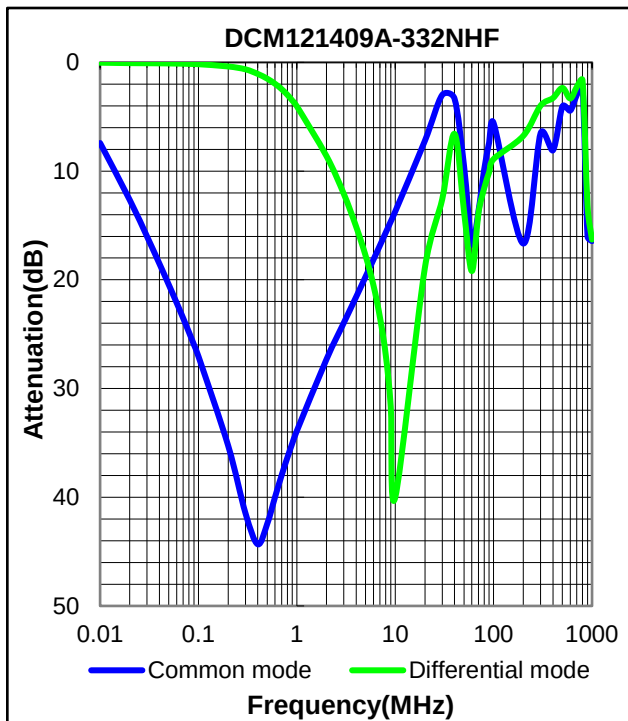
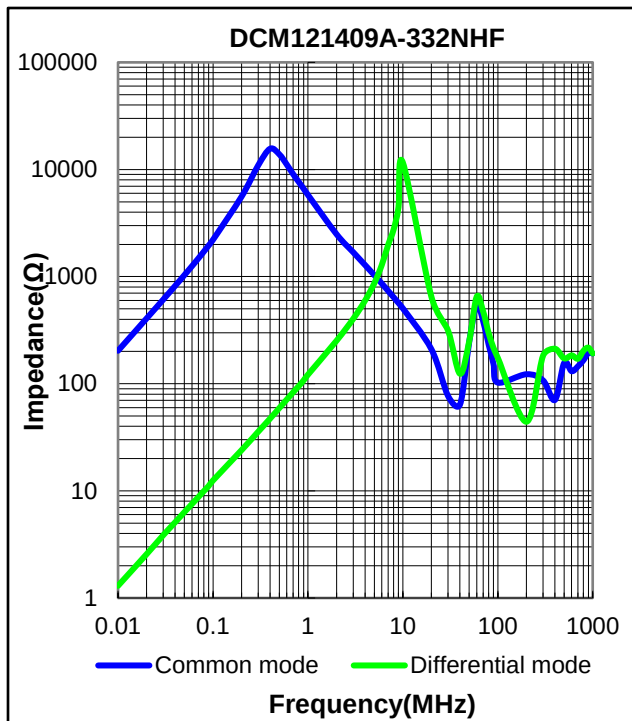
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM121409A Series :



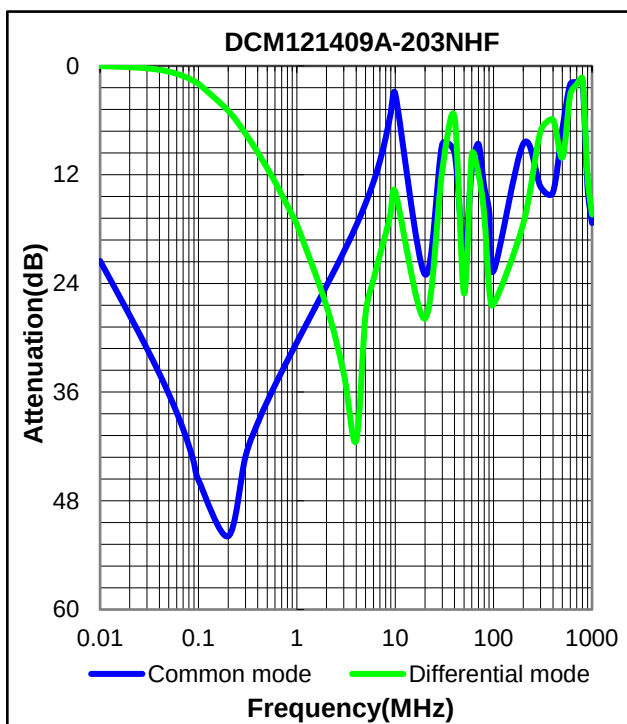
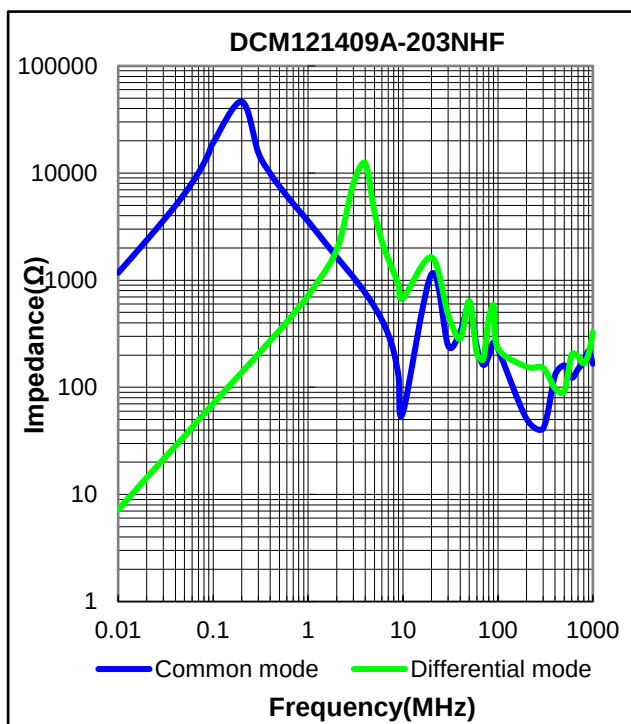
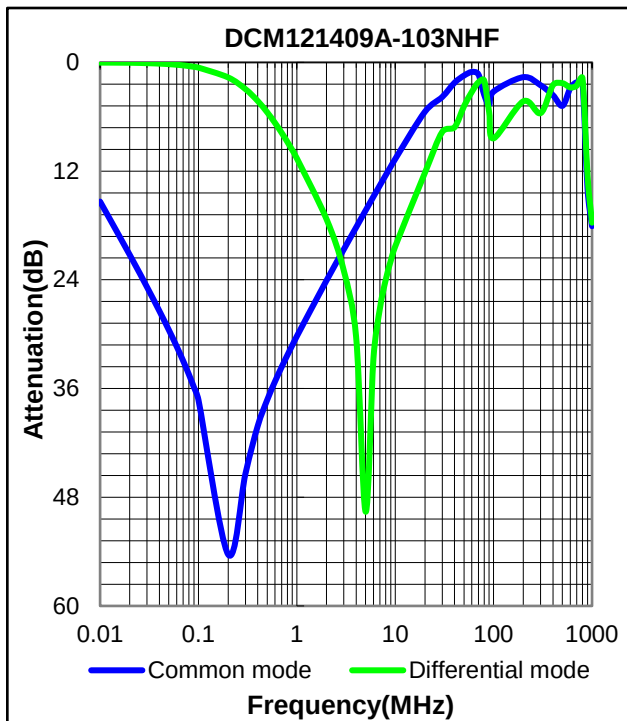
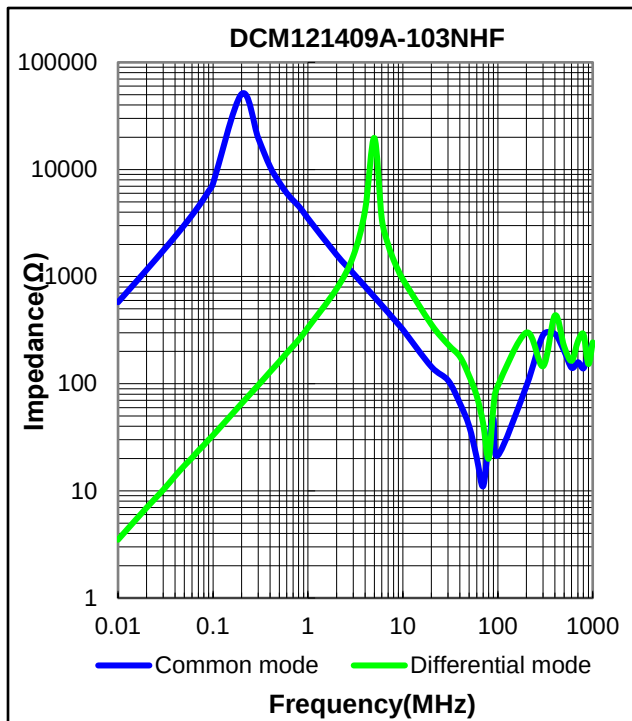
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM121409A Series :



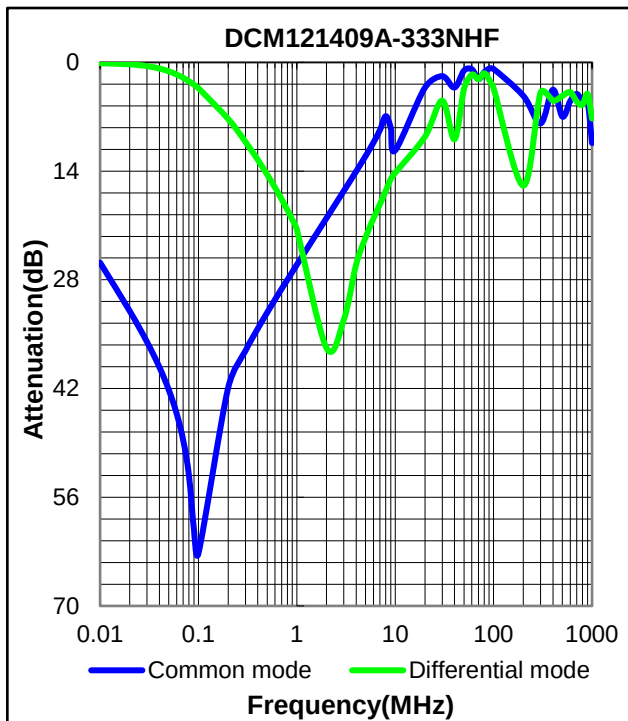
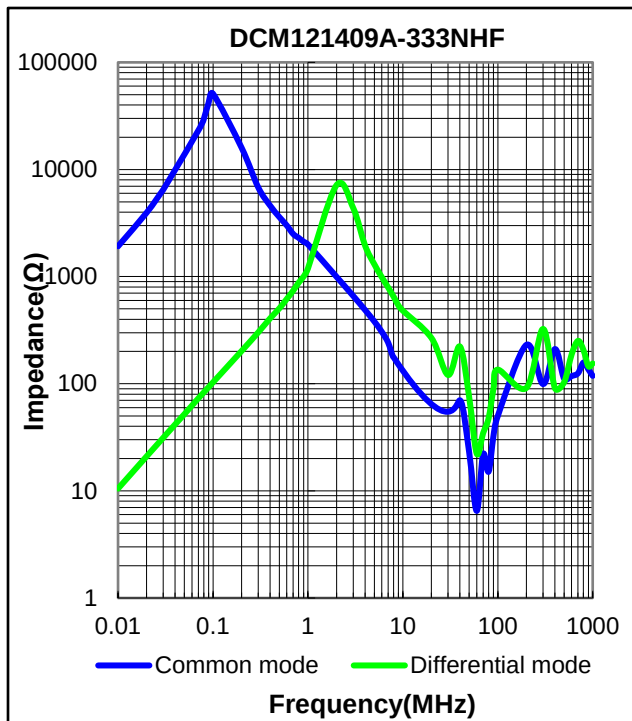
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM121409A Series :



4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM121409A Series :



4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM121409A Series :



Schematic diagram

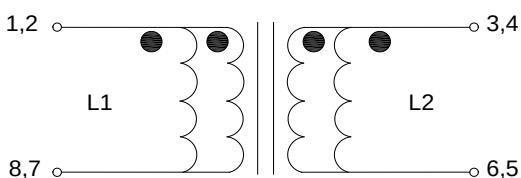


Fig1.

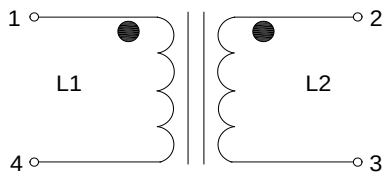


Fig2.

Test setup

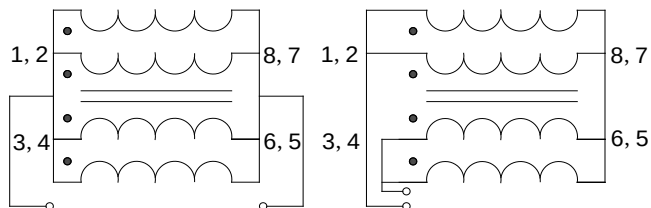


Fig1.

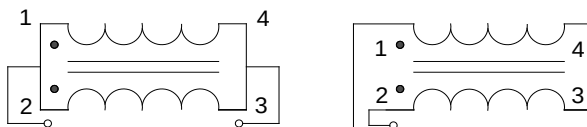


Fig2.