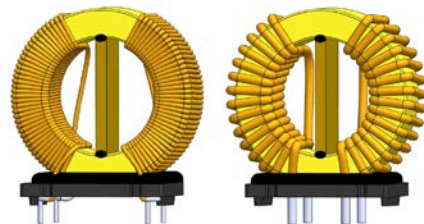


1. Features of DCM232412B Series :

- 58.0 × 31.0mm Max.(L×W),61.5mm Max. Height.
- Inductance range: 2.1mH ~ 50.0mH,Custom values are welcomed.
- AC common mode noise filter for Power Supplies and Lighting Application.
- Rated Voltage: 300VAC.
- Dielectric strength:2100Vrms,winding to winding.
- Insulation material meet requirement of UL510 flame retardant.
- UL94V-0 compliant for plastic material.
- Operating temperature: -40 to +125°C.
- RoHs & HF Compliant Components.



2. Electrical Characteristics of DCM232412B Series :

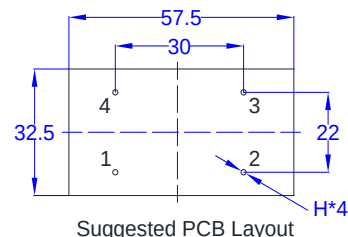
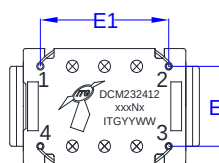
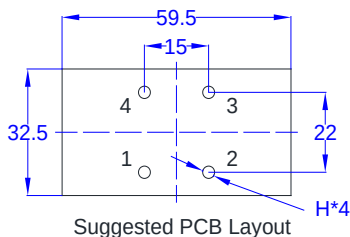
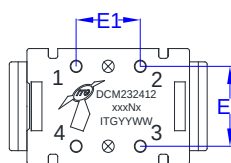
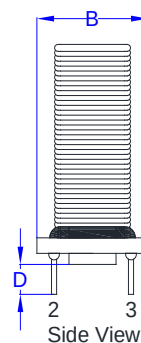
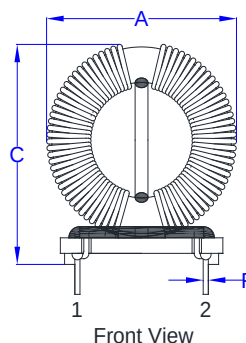
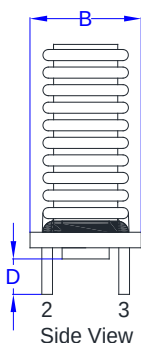
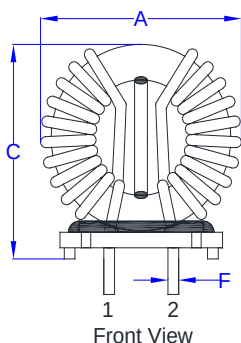
ITG Part Number	OCL ¹ (Pin1~4/2~3)	OCL ¹ L1-L2	DCR	I _{rated} ²
	(mH)	(uH)	(mΩ)	(A)
	± 30%	Max.	Max. @25°C	Max.
DCM232412B-212NHF	2.1	80.0	5.5	30.0
DCM232412B-302NHF	3.0	110.0	7.0	26.5
DCM232412B-502NHF	5.0	180.0	10.5	21.0
DCM232412B-802NHF	8.0	250.0	16.0	17.0
DCM232412B-103NHF	10.0	300.0	22.5	12.5
DCM232412B-153NHF	15.0	350.0	35.0	10.0
DCM232412B-203NHF	20.0	450.0	55.0	7.5
DCM232412B-303NHF	30.0	650.0	98.0	5.5
DCM232412B-503NHF	50.0	800.0	155.0	4.5

Notes:

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

3. Mechanical Dimension of DCM232412B 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	F (mm) ±0.1	H (mm) Ref.	Fig.
DCM232412B-212NHF	58.0	31.0	60.5	5.0	15.0	22.0	Φ2.3	Φ2.8	1
DCM232412B-302NHF	58.0	31.0	60.5	5.0	15.0	22.0	Φ2.2	Φ2.7	1
DCM232412B-502NHF	58.0	31.0	60.5	5.0	15.0	22.0	Φ2.0	Φ2.5	1
DCM232412B-802NHF	57.0	31.0	60.5	5.0	15.0	22.0	Φ1.8	Φ2.3	1
DCM232412B-103NHF	56.0	31.0	61.5	5.0	15.0	22.0	Φ1.6	Φ2.1	1
DCM232412B-153NHF	56.0	31.0	60.5	5.0	15.0	22.0	Φ1.4	Φ1.9	1
DCM232412B-203NHF	56.0	31.0	60.0	5.0	30.0	22.0	Φ1.2	Φ1.7	2
DCM232412B-303NHF	56.0	31.0	60.0	5.0	30.0	22.0	Φ1.2	Φ1.7	2
DCM232412B-503NHF	56.0	31.0	58.0	5.0	30.0	22.0	Φ1.2	Φ1.7	2



Part Marking:

DCM232412: Series Name.

xxxNx: xxx is inductance value in mH (R: decimal point),

N is tolerance, x is special code.

ITGYYWW: ITG is Company Name and YYWW is Date Code.

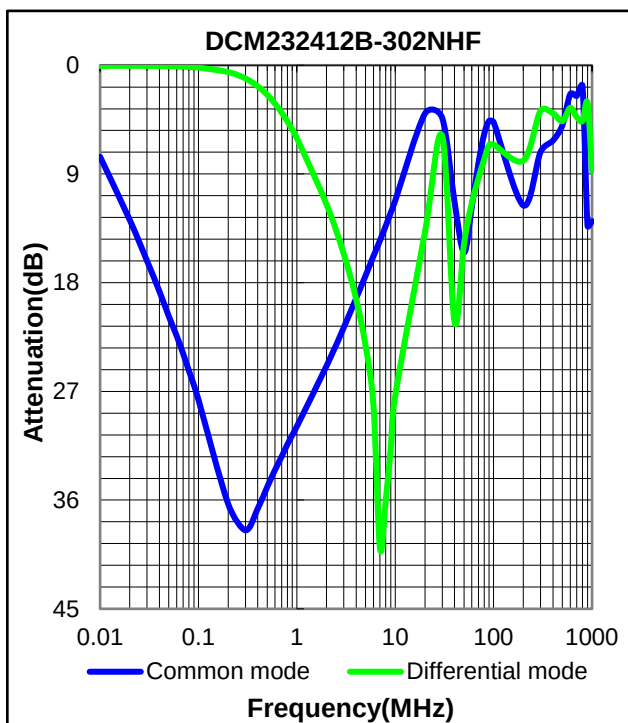
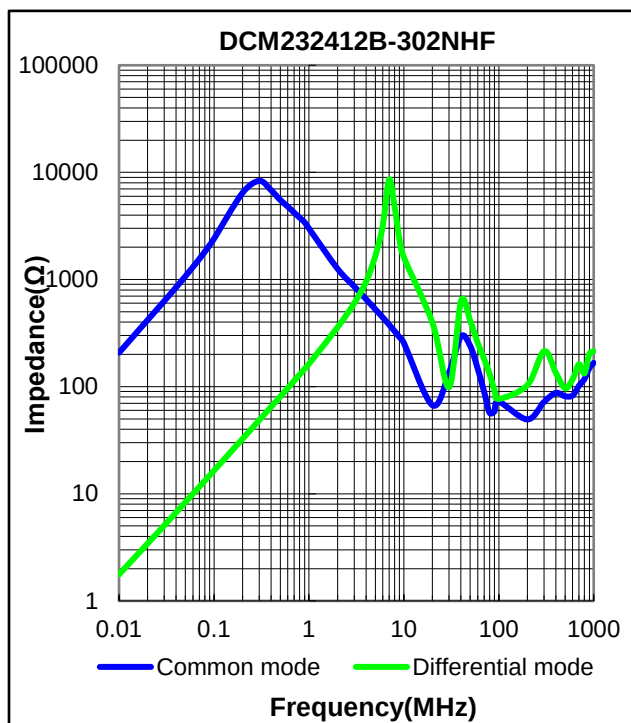
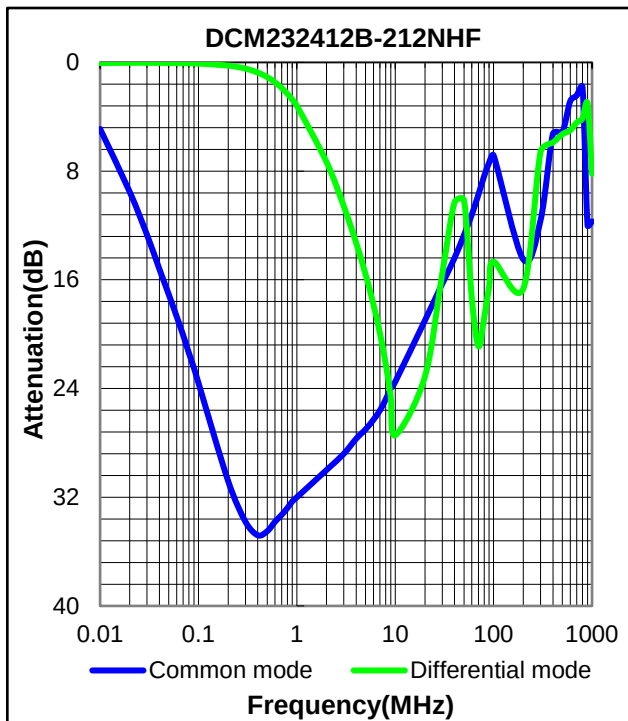
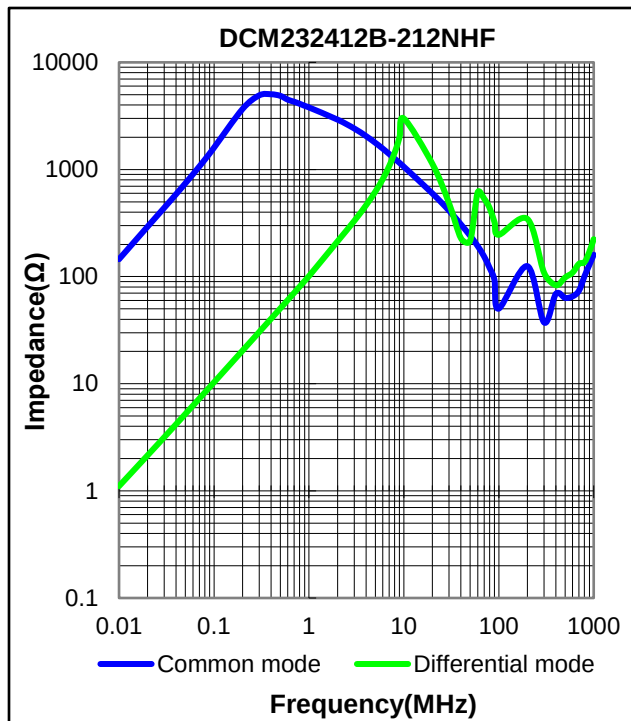
● New York 1 914 762 1039 ● Germany 49 (0) 8444 9284 46 ● Japan 81 568-85-2830

● Taipei 886 2 2698 8669 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

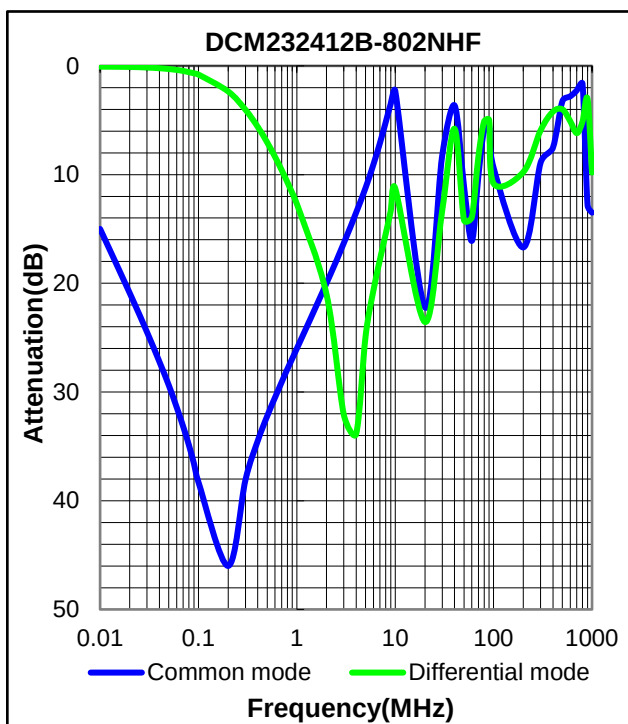
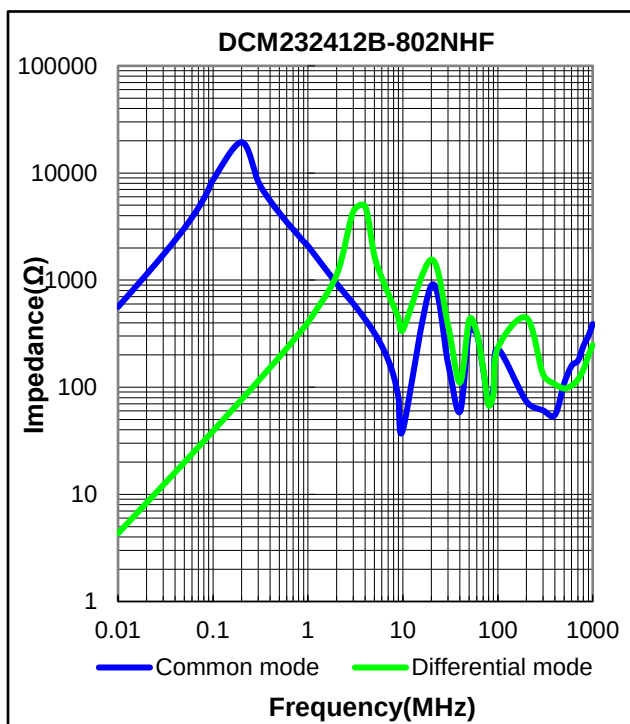
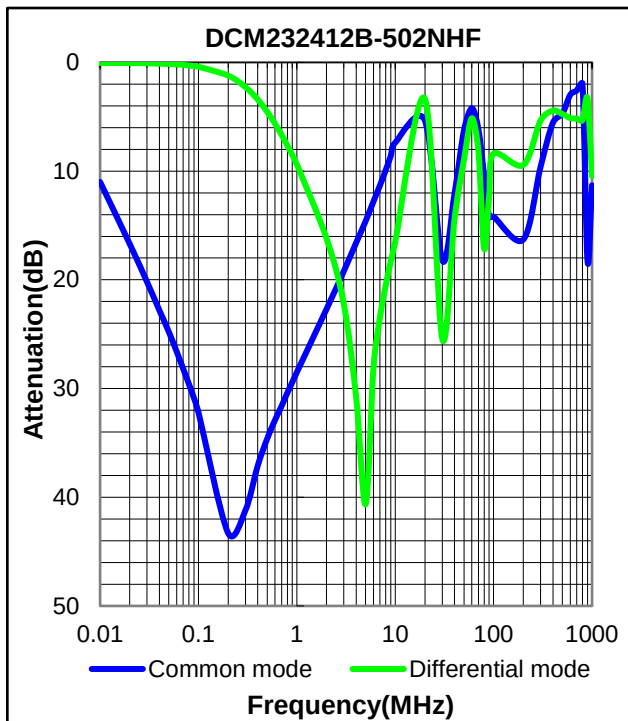
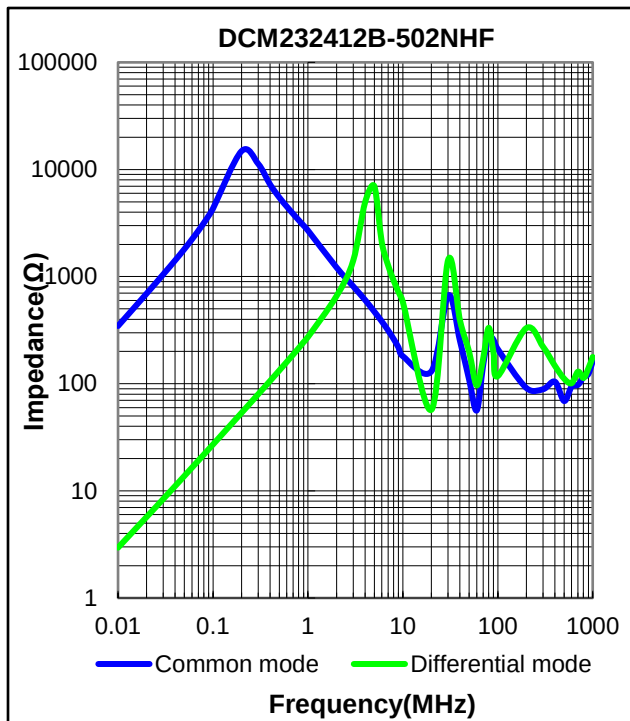
● Sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision A.0: May 27, 2026

*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.

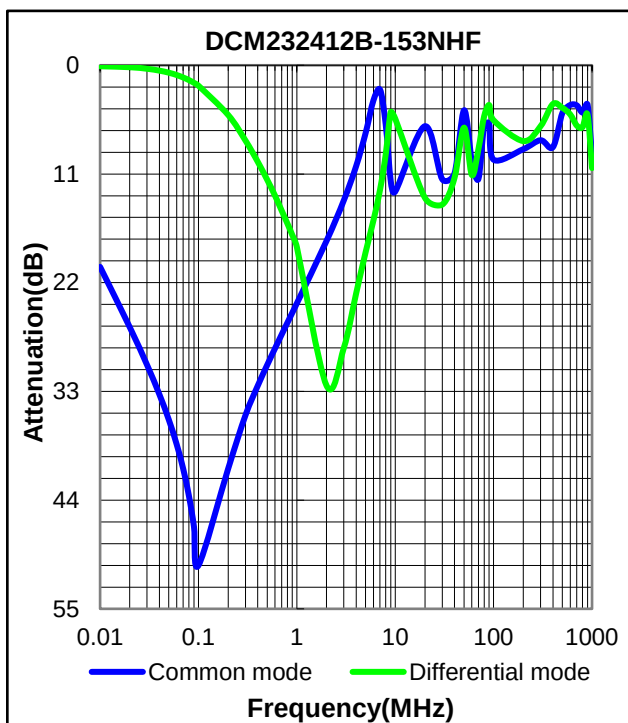
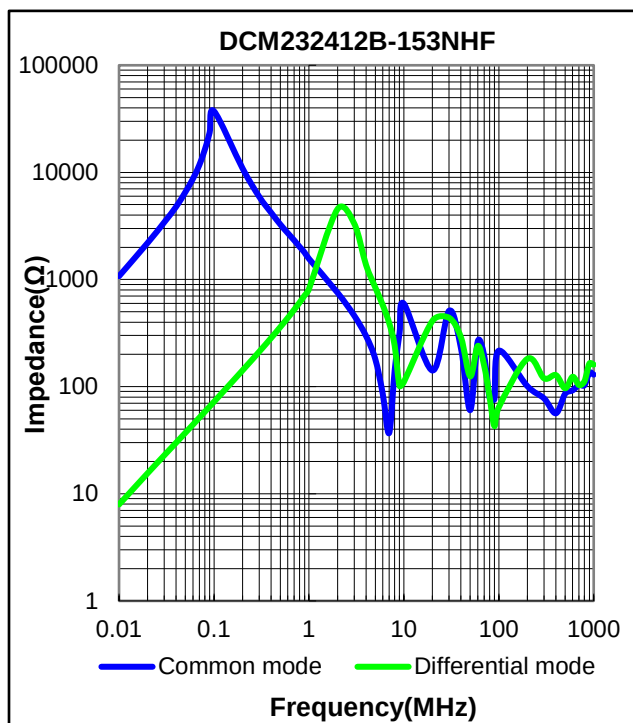
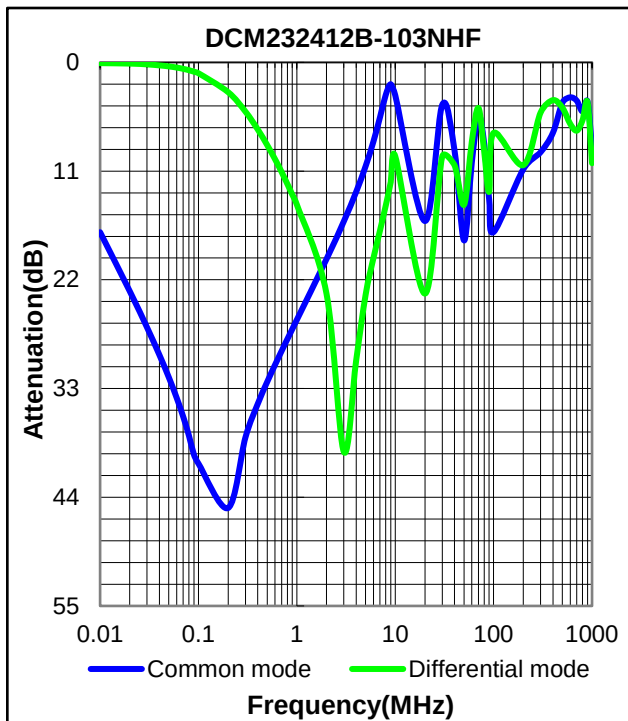
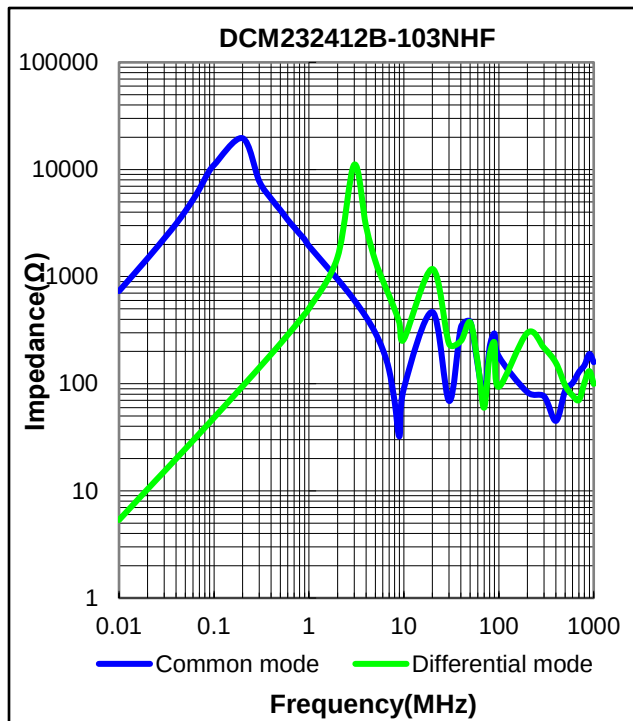
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM232412B Series :



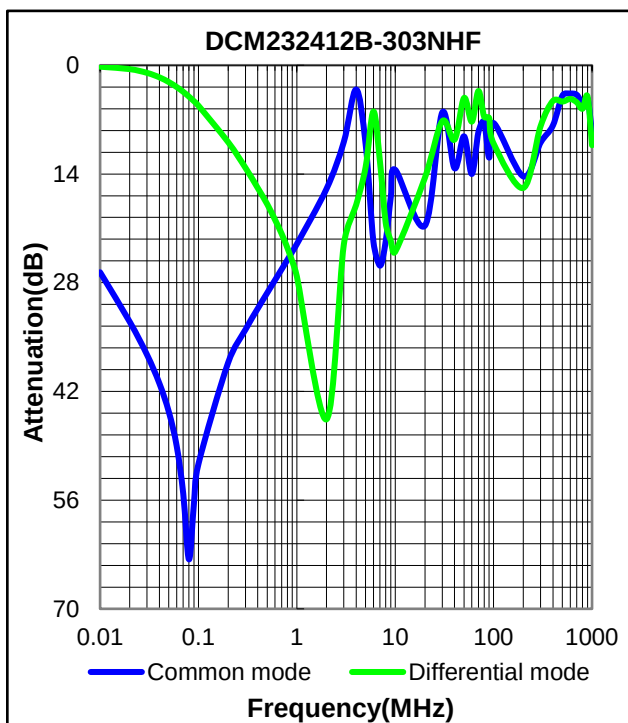
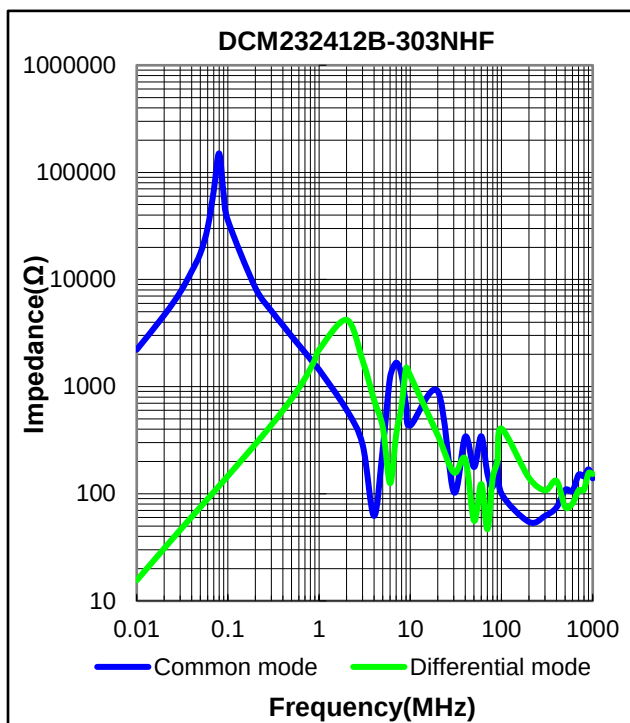
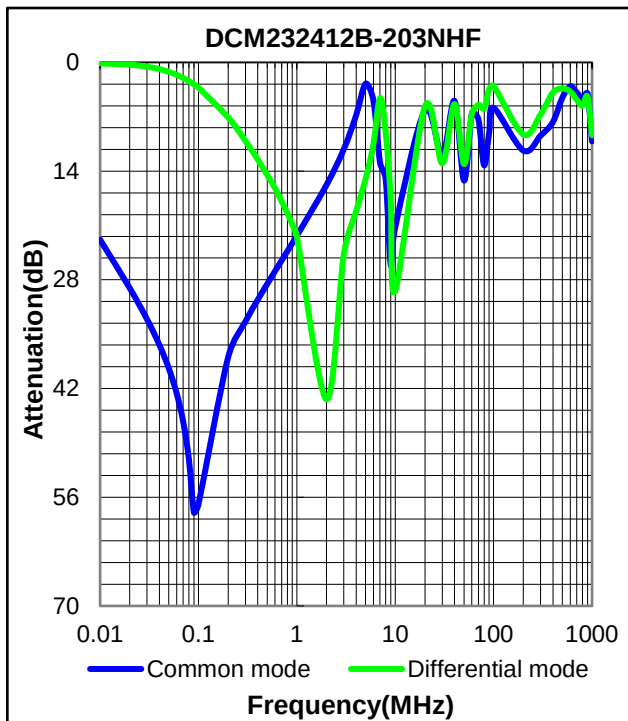
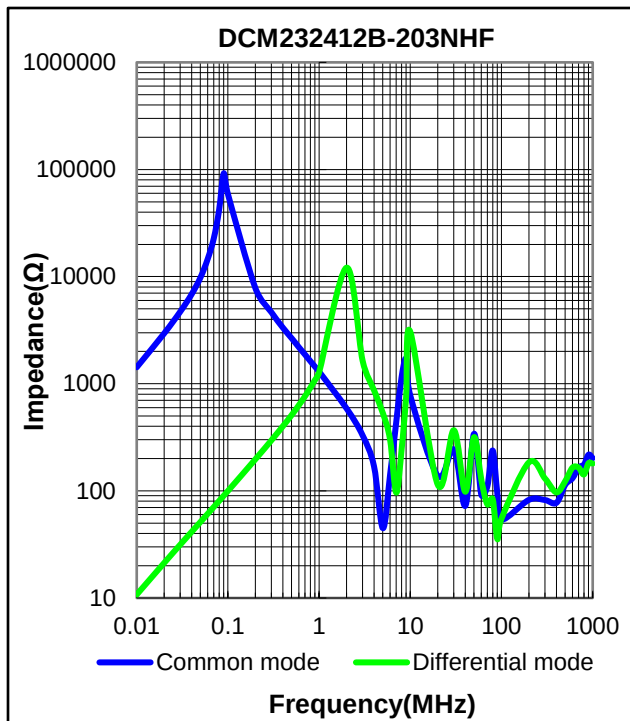
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM232412B Series :



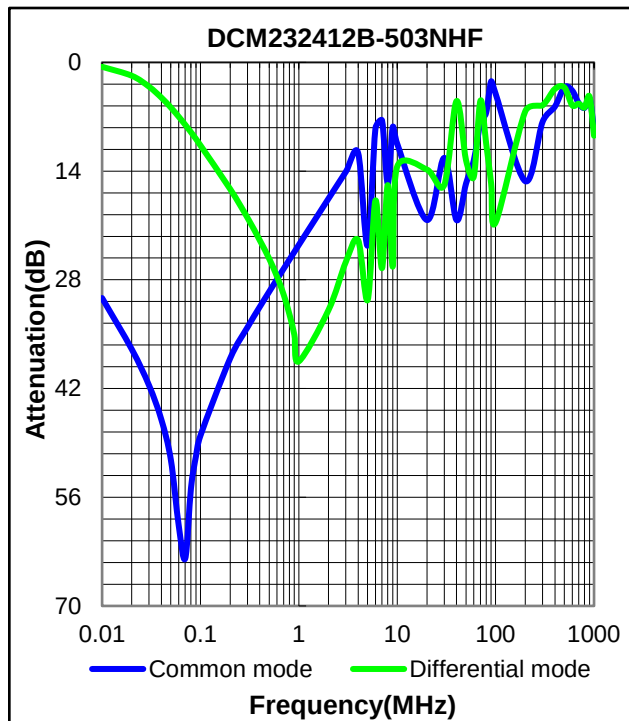
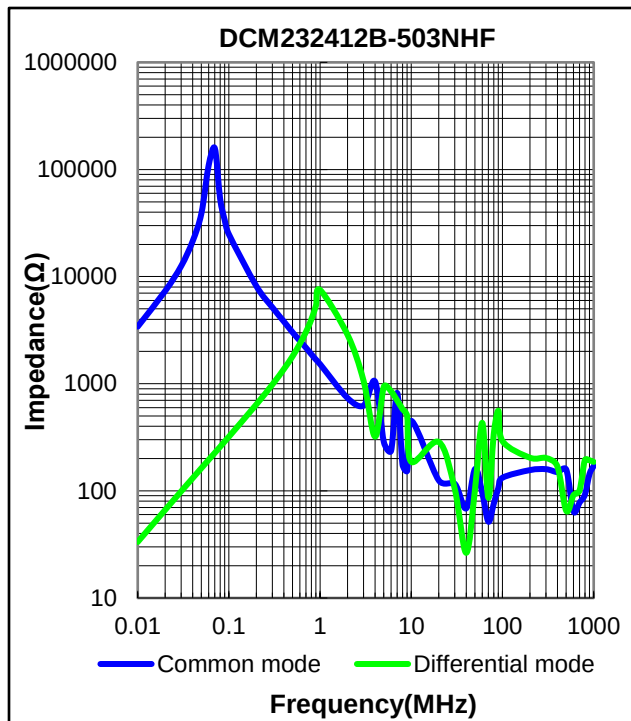
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM232412B Series :



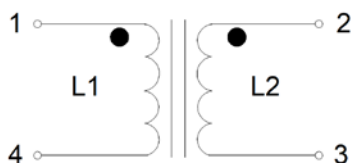
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM232412B Series :



4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCM232412B Series :



Schematic diagram



Test setup

