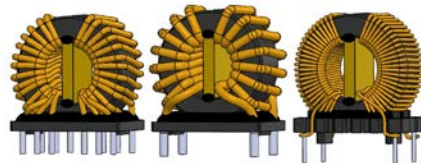


1. Features of DCN151509AQ Series :

- 37.0 × 23.0mm Max.(L×W),38.0mm Max. Height.
- Inductance range: 0.9mH ~ 190.0mH,Custom values are welcomed.
- AC common mode noise filter for Power Supplies and Lighting Application.
- Rated Voltage: 300VAC.
- Dielectric strength:2100Vrms,winding to winding.
- UL 94 V-0 Material.
- Operating temperature: -55 to +130°C.
- RoHS Compliant Components.
- AEC-Q200 Grade 3 Compliant.



2. Electrical Characteristics of DCN151509AQ Series :

ITG Part Number	OCL ¹ (Pin1,2,3~12,11,10/ Pin4,5,6~9,8,7)	OCL ¹ L1-L2	DCR	Irated ²
	(mH)	(uH)	(mΩ)	(A)
	+50% / -30%	Max.	Max. @25°C	Max.
DCN151509AQ-901	0.9	70.0	1.1	32.0

ITG Part Number	OCL ¹ (PIN1-4 / 2-3)	OCL ¹ L1-L2	DCR	Irated ²
	(mH)	(uH)	(mΩ)	(A)
	+50% / -30%	Max.	Max. @25°C	Max.
DCN151509AQ-252	2.5	90.0	2.2	25.0
DCN151509AQ-302	3.0	110.0	3.0	23.0
DCN151509AQ-452	4.5	160.0	4.2	18.0
DCN151509AQ-702	7.0	250.0	8.0	13.0
DCN151509AQ-123	12.0	260.0	15.0	10.0
DCN151509AQ-303	30.0	650.0	46.0	5.0
DCN151509AQ-903	90.0	2000.0	110.0	3.5
DCN151509AQ-194	190.0	3400.0	310.0	2.0

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 DCN151509AQ 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.
DCN151509AQ-901	37.0	23.0	34.0	5.0	25.0	17.0	9.0	15.0	1.5	2.0	1
DCN151509AQ-252	36.0	22.5	34.0	5.0	25.0	15.0	/	/	2.2	2.7	2
DCN151509AQ-302	36.0	22.0	33.0	5.0	25.0	15.0	/	/	2.0	2.5	2
DCN151509AQ-452	36.0	22.0	34.0	5.0	25.0	15.0	/	/	1.8	2.3	2
DCN151509AQ-702	35.5	22.0	34.5	5.0	25.0	15.0	/	/	1.5	2.0	2
DCN151509AQ-123	34.0	22.0	33.0	5.0	25.0	15.0	/	/	1.2	1.7	2
DCN151509AQ-303	33.0	22.0	33.0	5.0	25.0	15.0	/	/	0.8	1.3	2
DCN151509AQ-903	33.0	19.0	38.0	5.0	25.0	15.0	/	/	1.0	1.5	3
DCN151509AQ-194	33.0	19.0	38.0	5.0	25.0	15.0	/	/	1.0	1.5	3

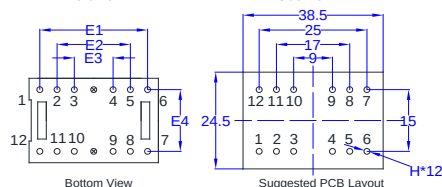
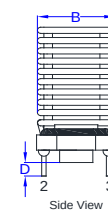
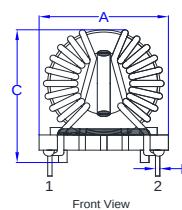
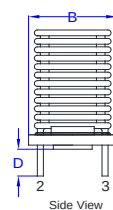
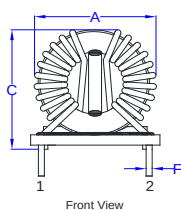
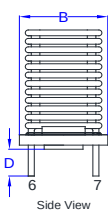
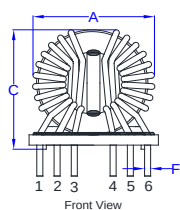


Fig1.

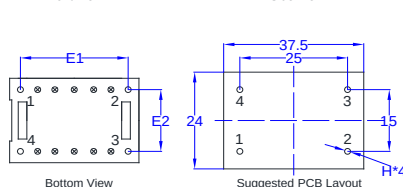


Fig2.

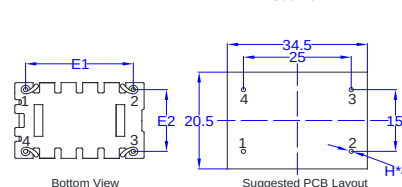


Fig3.

Note:

PIN 1 & PIN 2 & PIN3 to be connected, PIN 4 & PIN 5 & PIN6 to be connected,
PIN 12 & PIN 11 & PIN10 to be connected, PIN 9 & PIN 8 & PIN7 to be connected,
in parallel on the PC board.

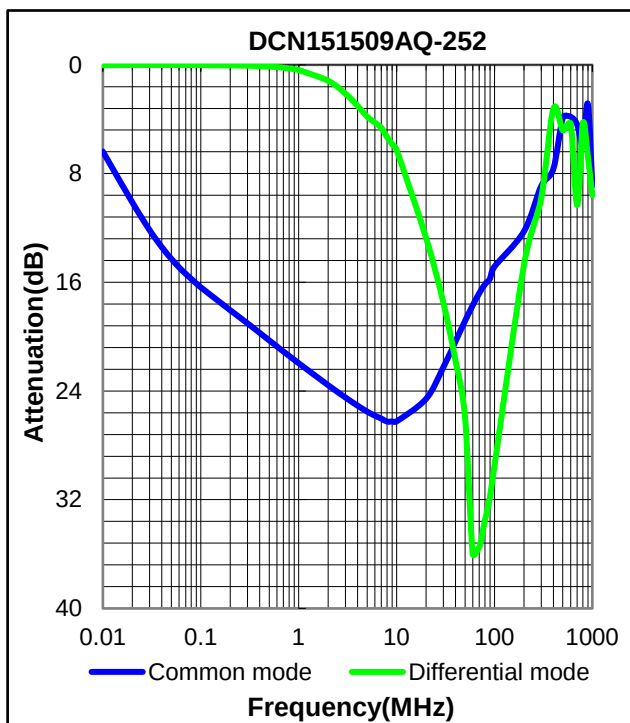
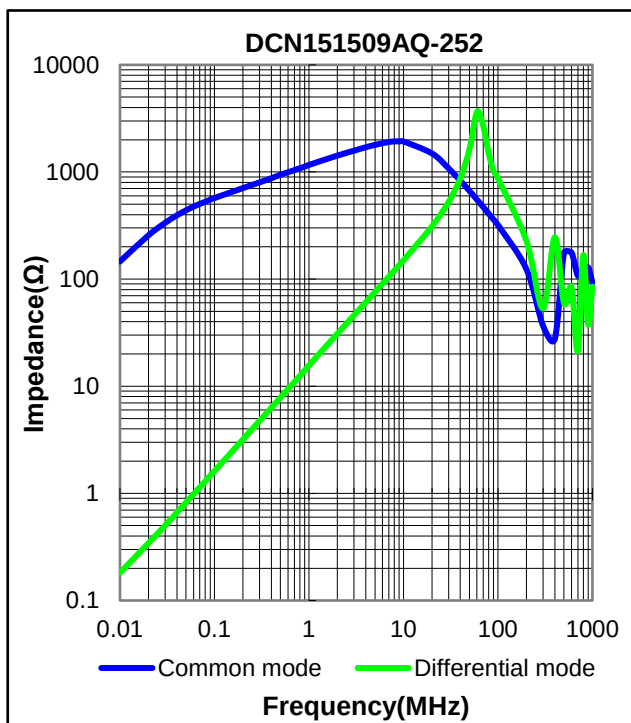
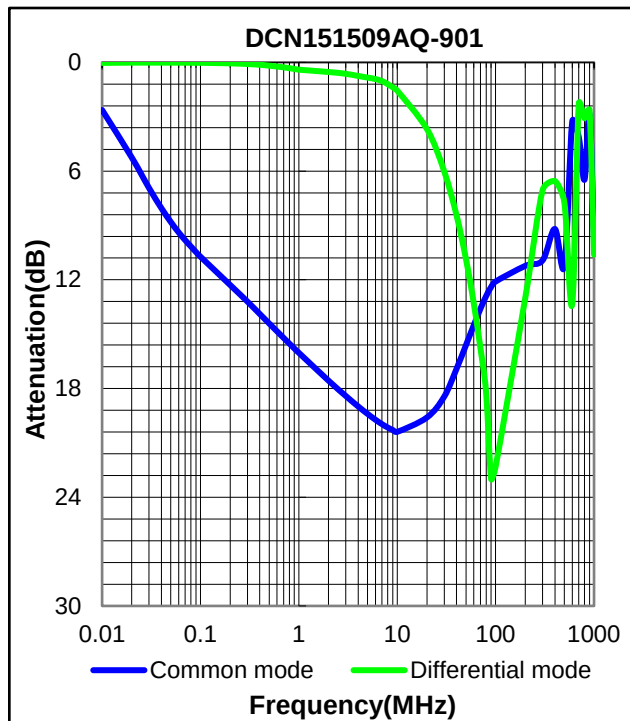
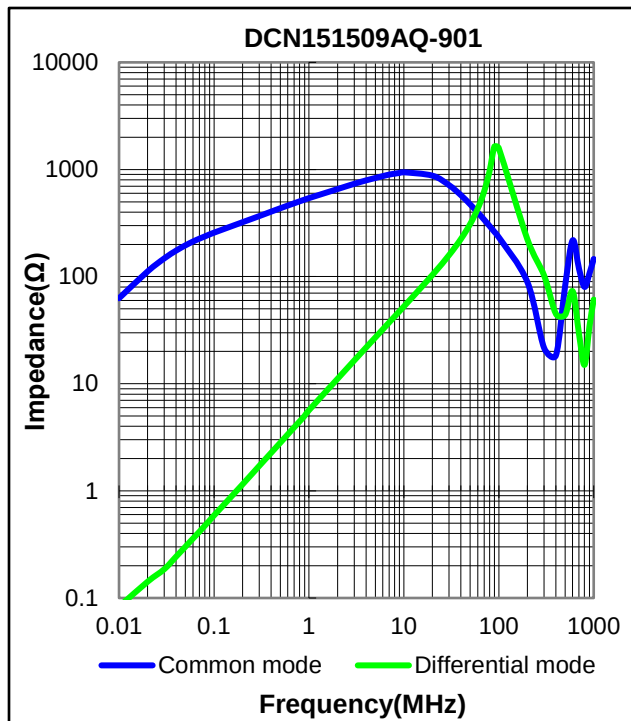
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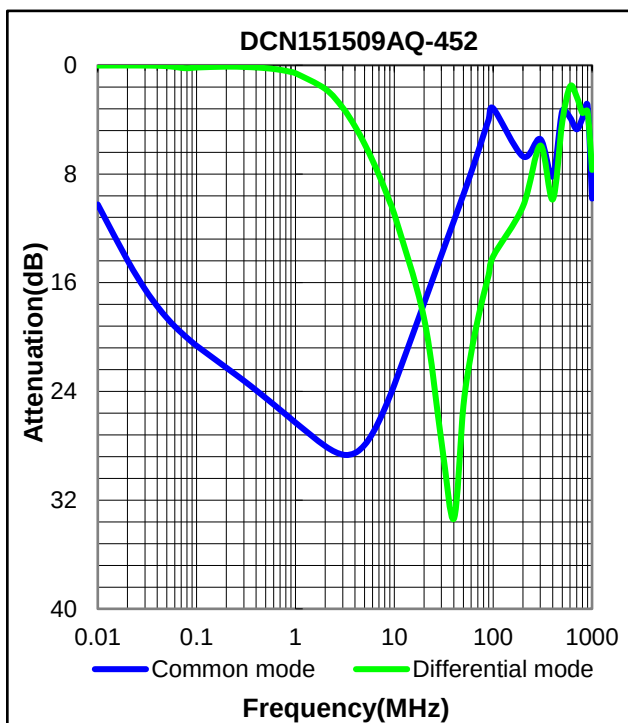
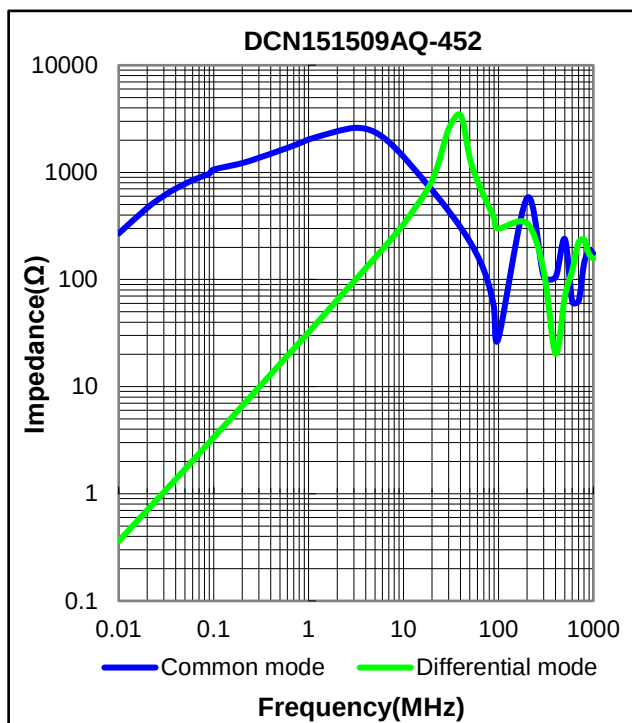
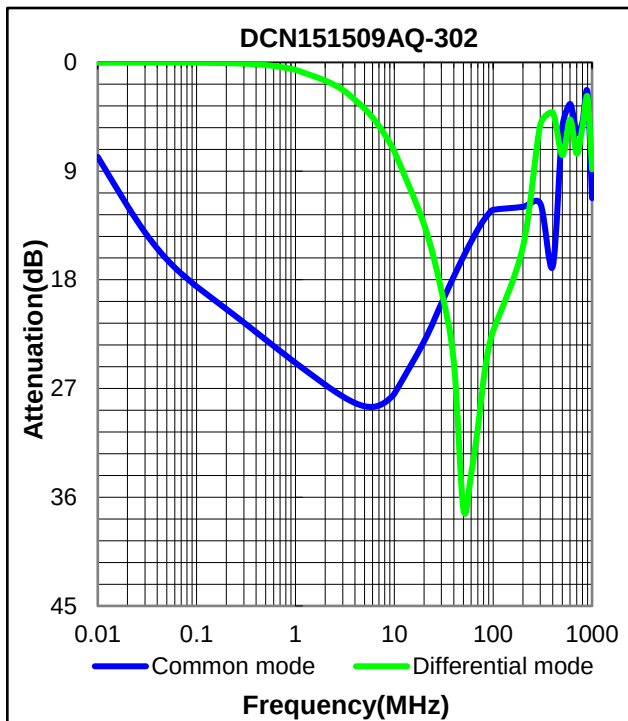
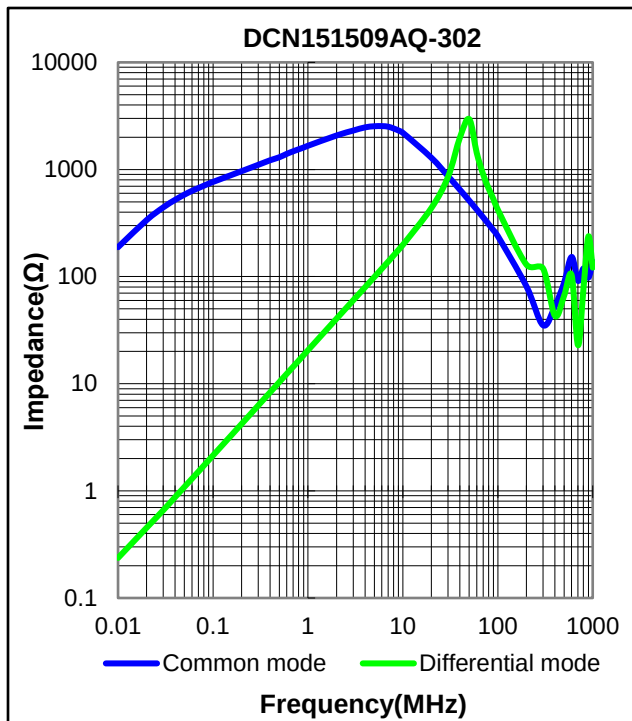
● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision A.0: September 8, 2025

*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.

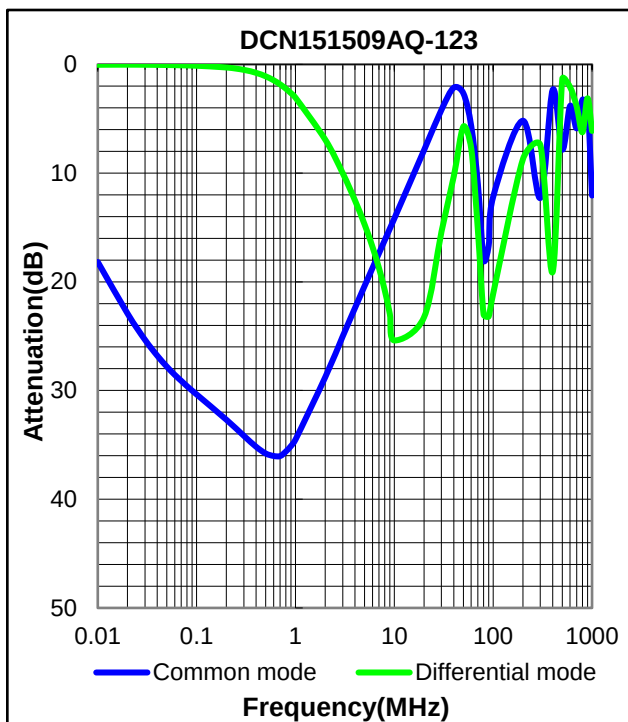
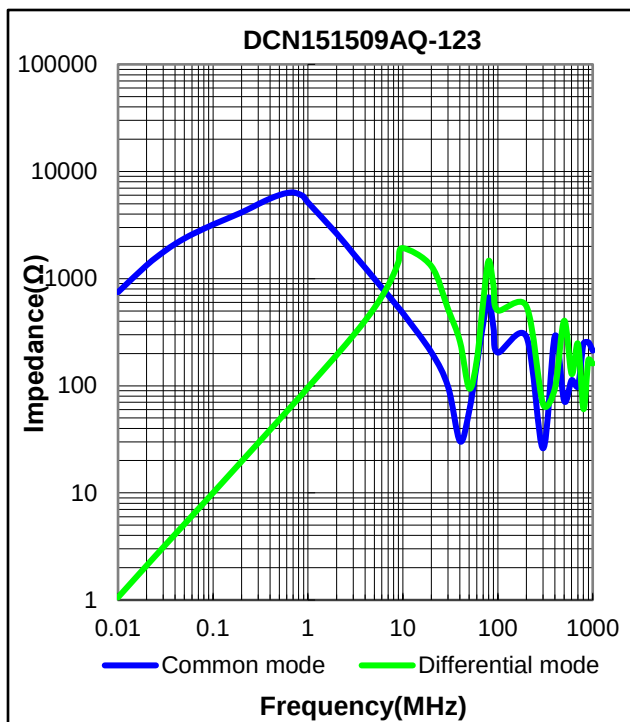
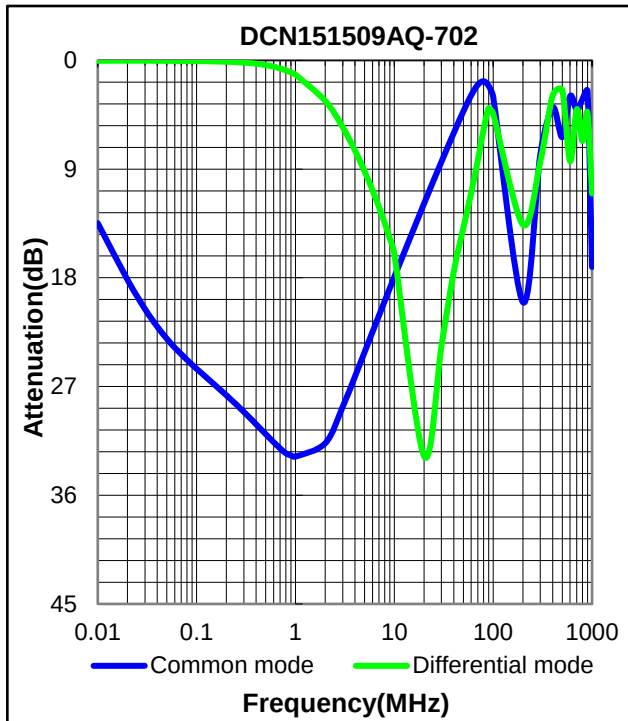
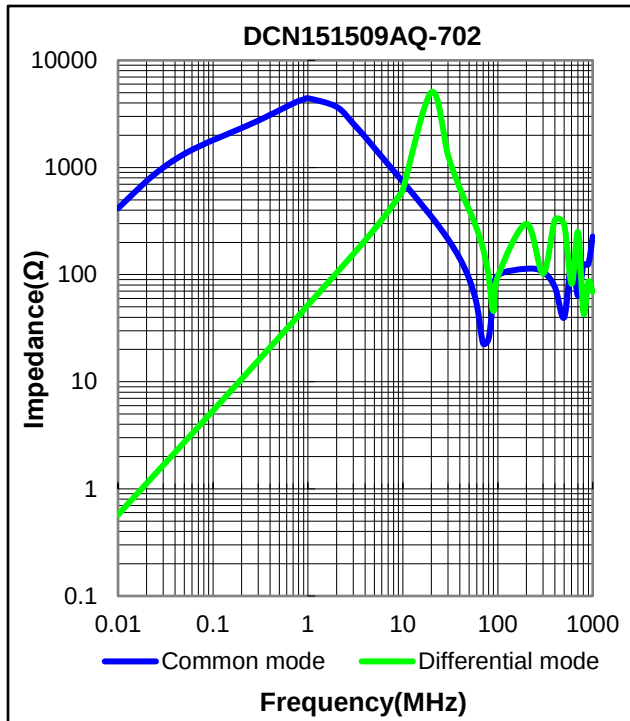
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCN151509AQ Series :



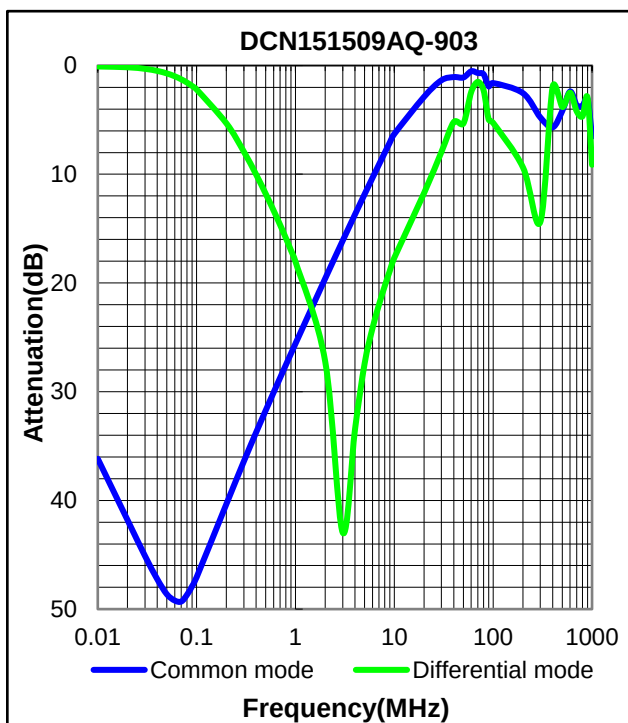
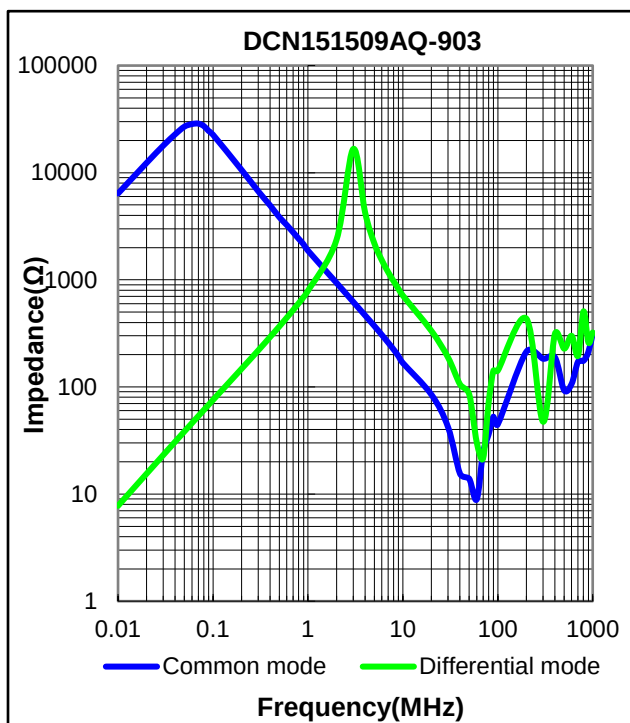
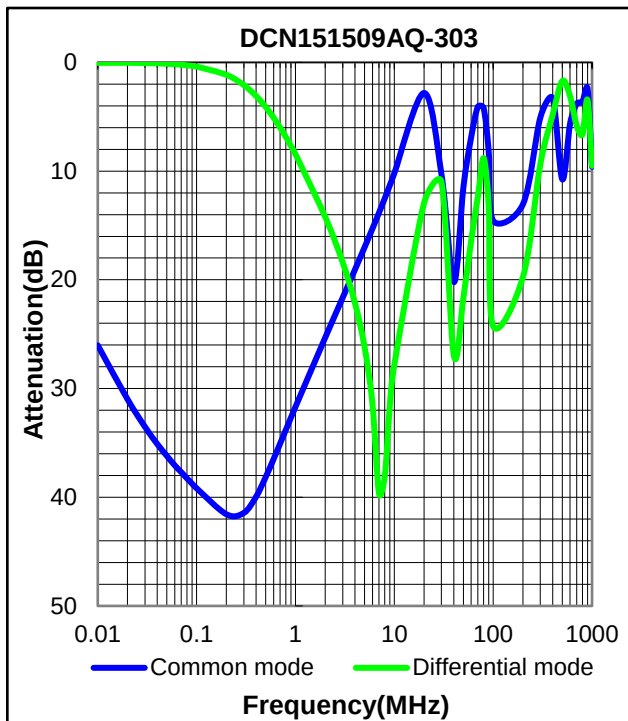
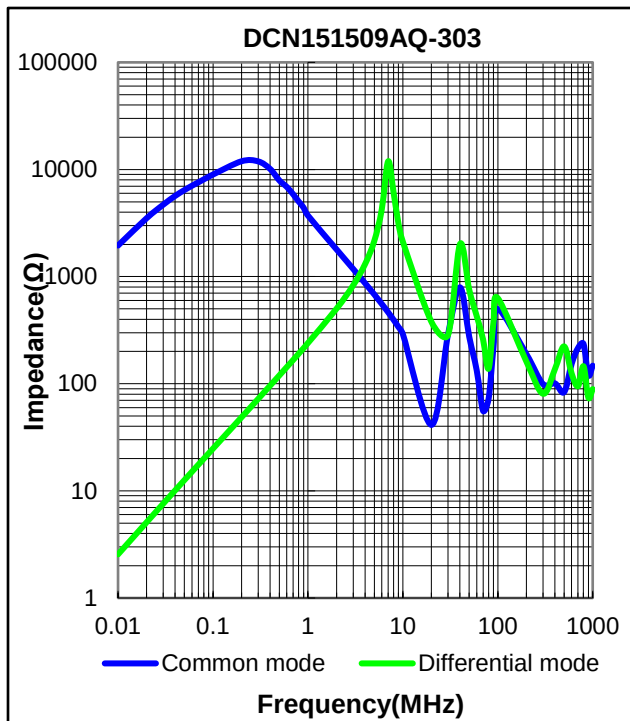
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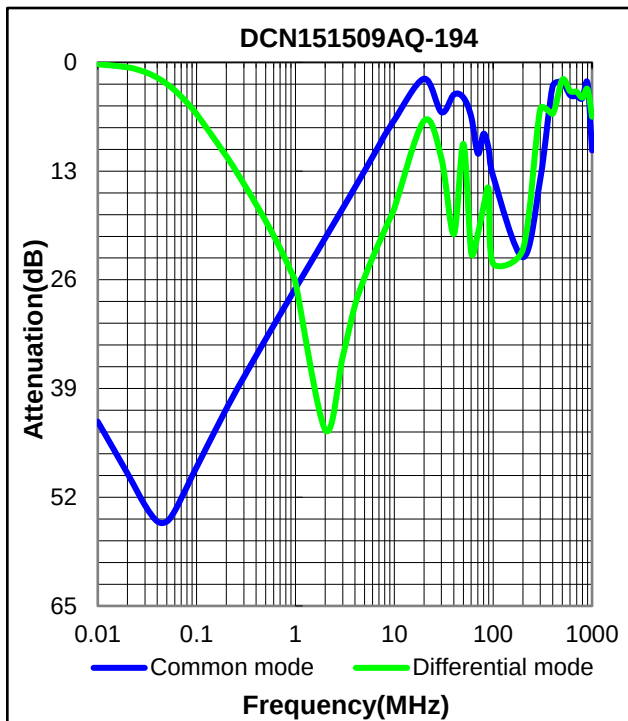
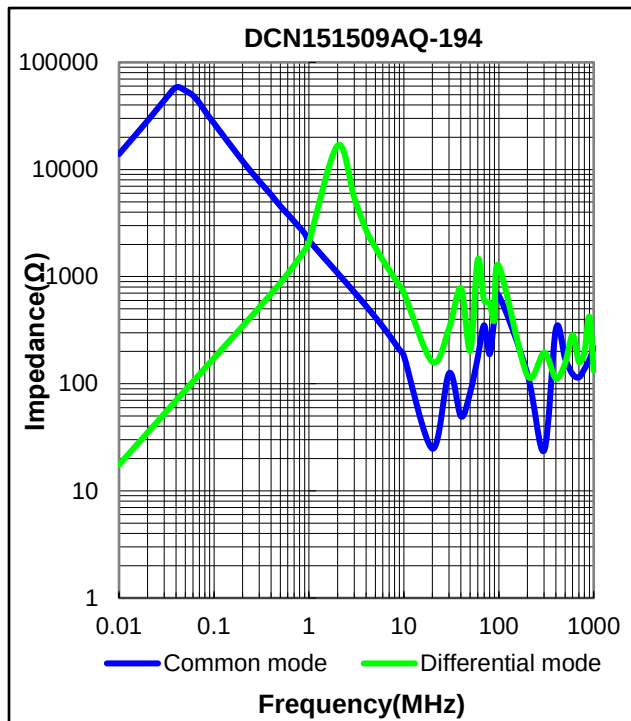
4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCN151509AQ Series :



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4. Typical Impedance and Typical Attenuation vs Frequency Curve of DCN151509AQ Series :



Schematic diagram

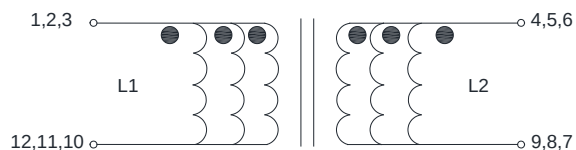


Fig1.

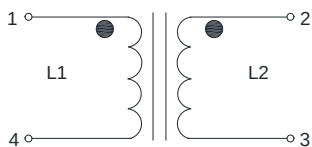


Fig2. and Fig3.

Test setup

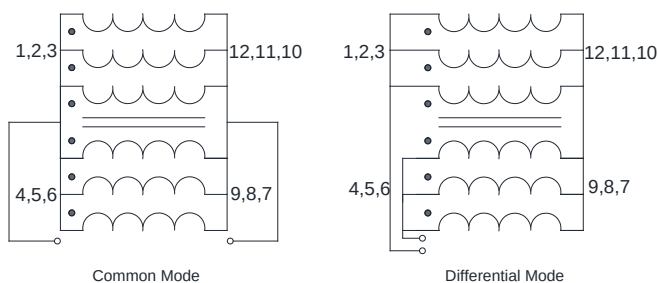


Fig1.



Fig2. and Fig3.