

1. Features of C301369 Series :

- 34.0 × 34.0mm Max.(L×W), 26.0mm Max. Height.
- Inductance range: 2.5mH~10.0mH,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 Compliant Components.



2. Electrical Characteristics of C301369 Series:

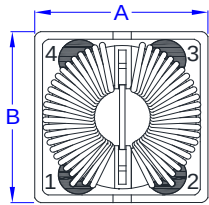
ITG Part Number	Common mode impedance	OCL ¹ (PIN1-4 / 2-3)	OCL ¹ L1-L2	DCR	Irated ²
	(KΩ)	(mH)	(mH)	(mΩ)	(A)
	Typ. @1MHz	± 30%	Max.	Max. @25°C	Max.
C301369A-252NU	7.80	2.50	0.19	23.00	8.20
C301369B-252NU	11.20	2.50	0.19	23.00	8.20
C301369A-352NU	6.10	3.50	0.27	23.00	8.20
C301369B-352NU	9.30	3.50	0.27	23.00	8.20
C301369A-372NU	12.90	3.70	0.22	27.00	7.60
C301369B-372NU	15.50	3.70	0.22	27.00	7.60
C301369A-532NU	10.90	5.30	0.32	27.00	7.60
C301369B-532NU	12.80	5.30	0.32	27.00	7.60
C301369A-752NU	10.30	7.50	0.38	32.50	7.00
C301369B-752NU	13.00	7.50	0.38	32.50	7.00
C301369A-103NU	11.00	10.00	0.43	44.00	6.00
C301369B-103NU	14.00	10.00	0.43	44.00	6.00

Notes:

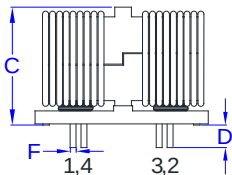
1. Open Circuit Inductance (OCL) measured at 1KHz,0.1mA @ 25°C.
2. Irated: Irate is defined as the applied current level that cause 40 °C temperature rise without force air flow.

3. Mechanical Dimension of C301369 Series (Unit:mm):

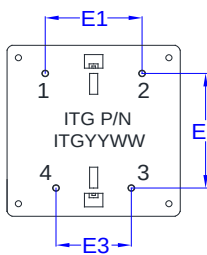
ITG Part Number	Dim. A (mm) Max.	Dim. B (mm) Max.	Dim. C (mm) Max.	Dim. D (mm) ±0.5	Dim. E1 (mm) ±0.5	Dim. E2 (mm) ±0.5	Dim.E3 (mm) ±0.5	Dim. F (mm) ±0.1	Dim. H (mm) Ref.
C301369A-252NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369B-252NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369A-352NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369B-352NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369A-372NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369B-372NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369A-532NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369B-532NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369A-752NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369B-752NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.10	Φ1.60
C301369A-103NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.00	Φ1.50
C301369B-103NU	34.00	34.00	26.00	5.00	18.00	22.00	14.00	Φ1.00	Φ1.50



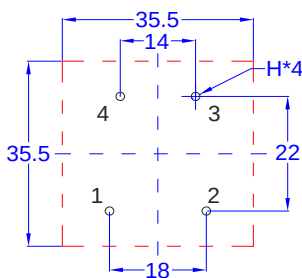
Top View



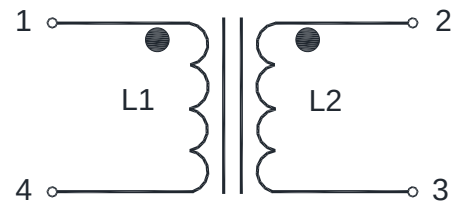
Front View



Bottom View



Suggested PCB Layout



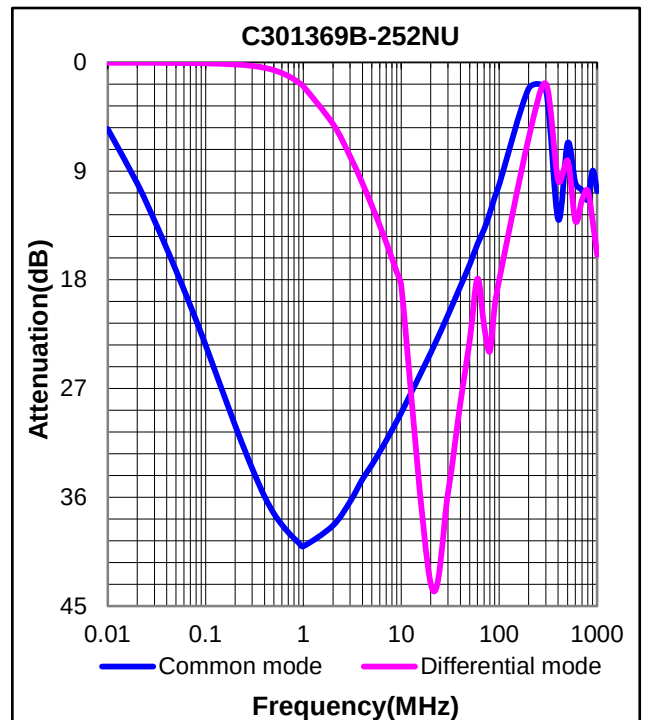
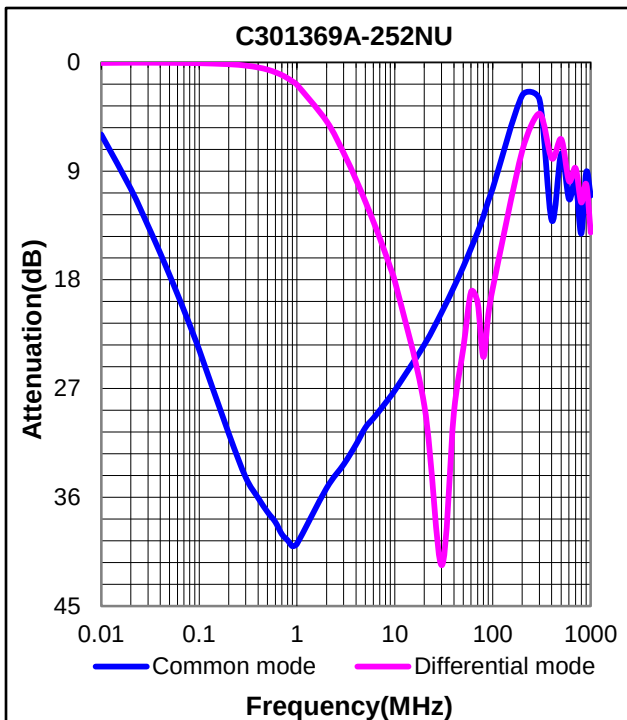
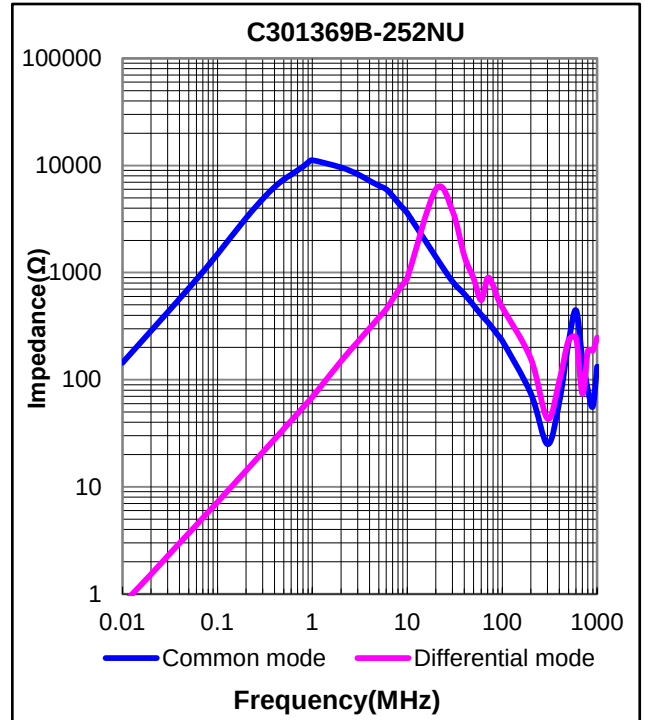
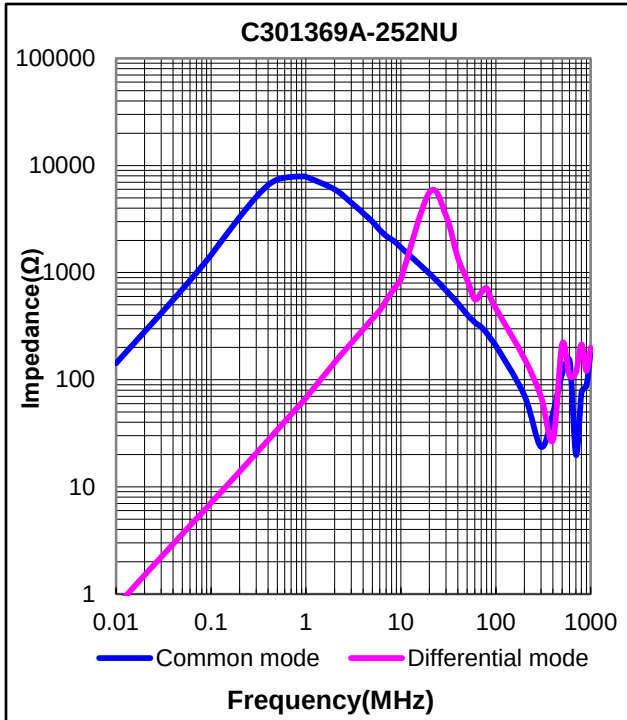
SCHEMATIC DIAGRAM

Part Marking:

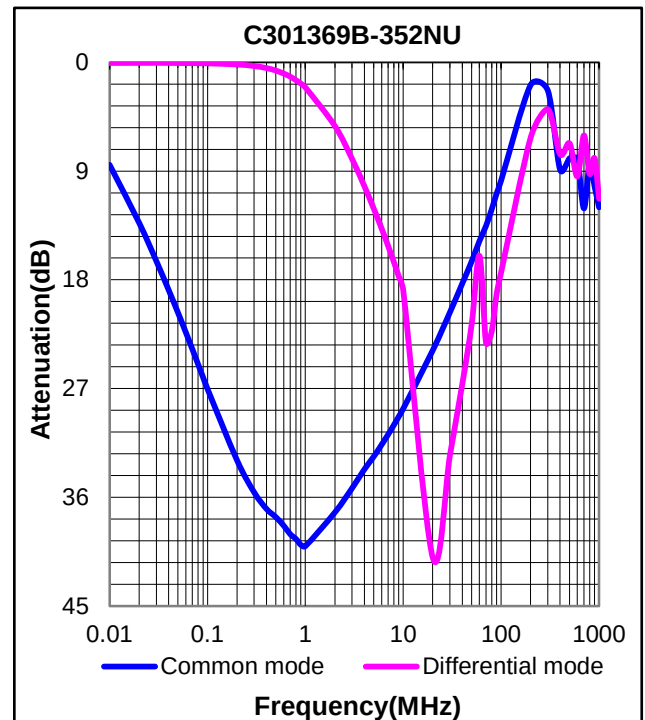
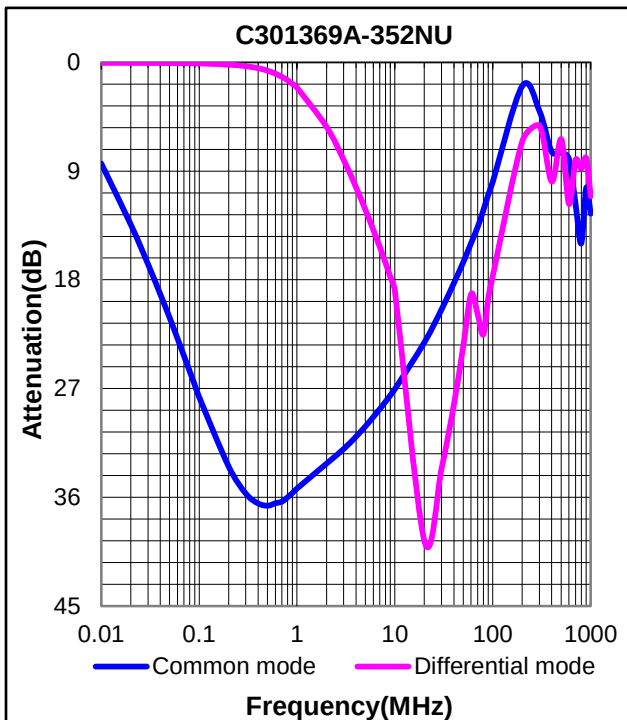
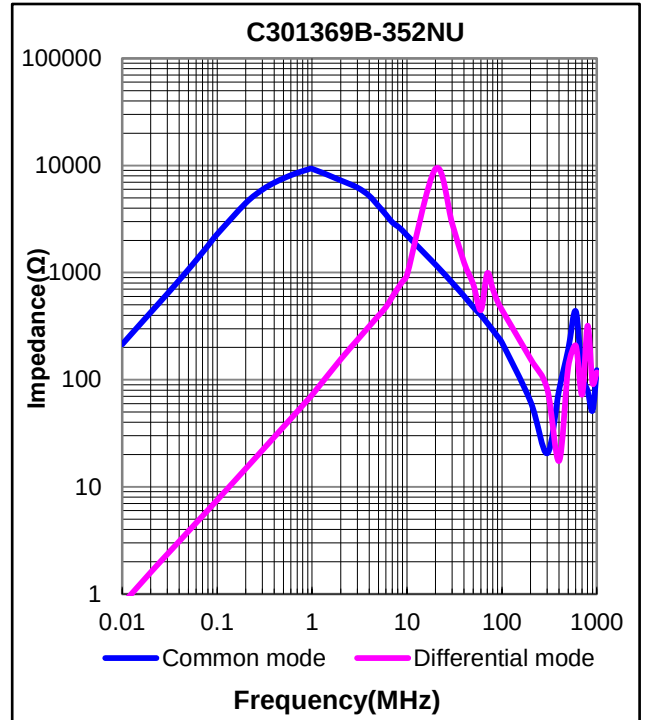
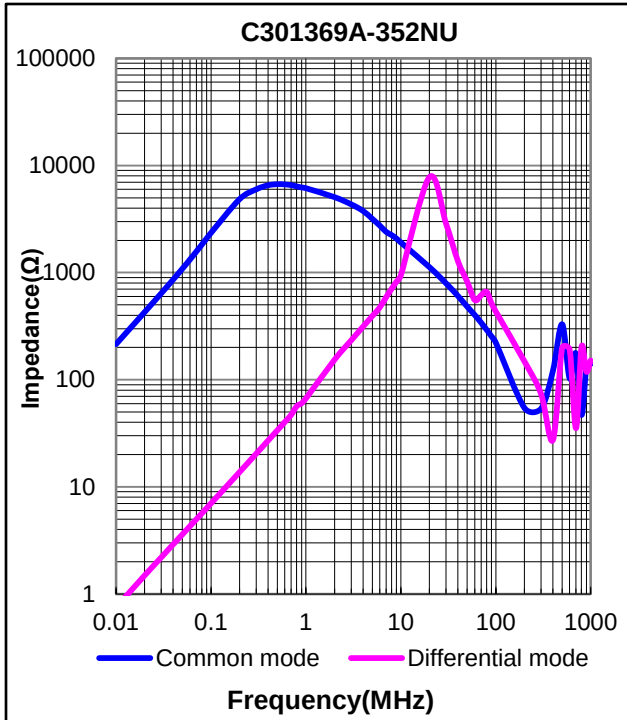
ITG P/N: ITG Part Number.

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

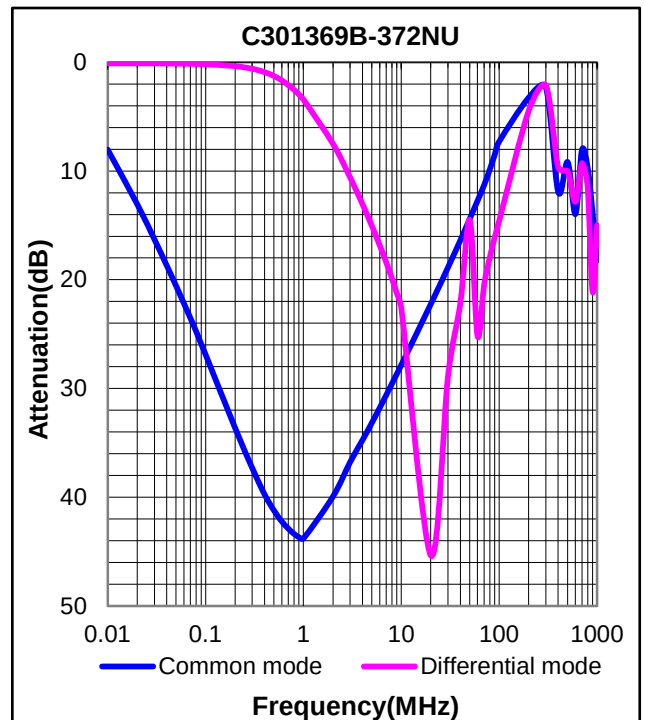
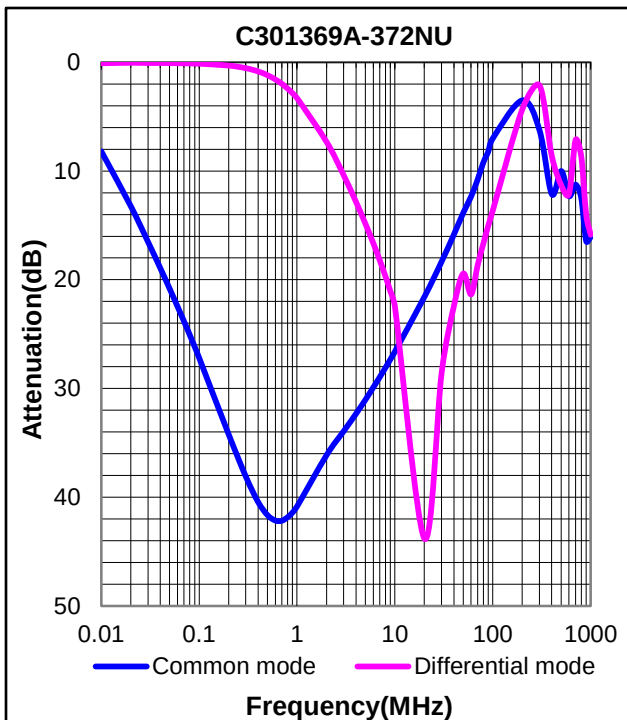
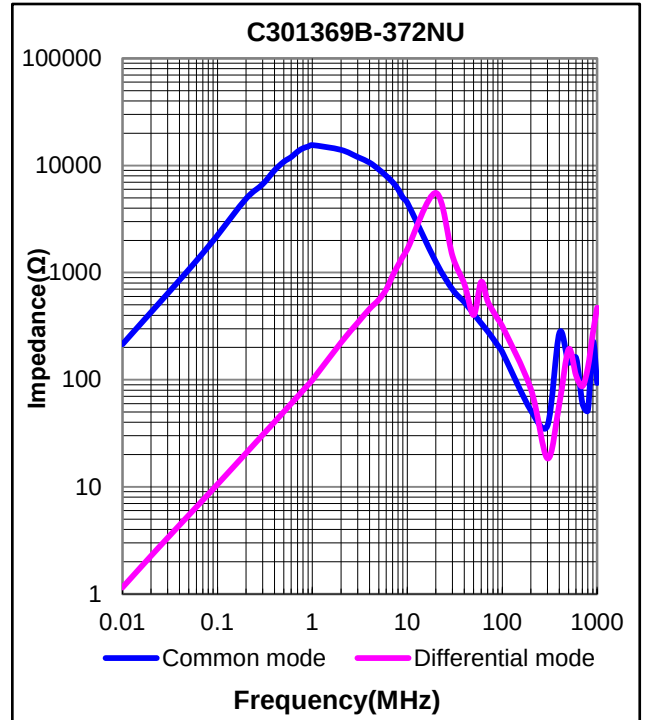
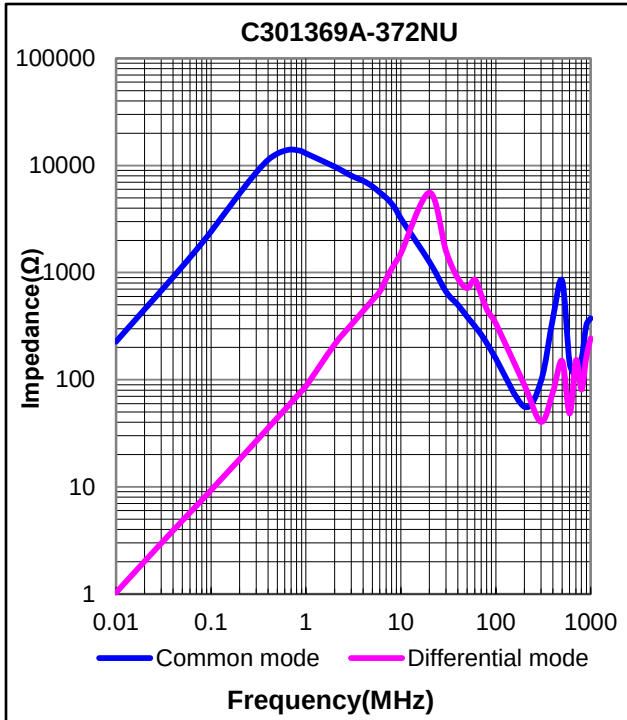
4. Typical Impedance and Typical Attenuation vs Frequency Curve of C301369 Series :



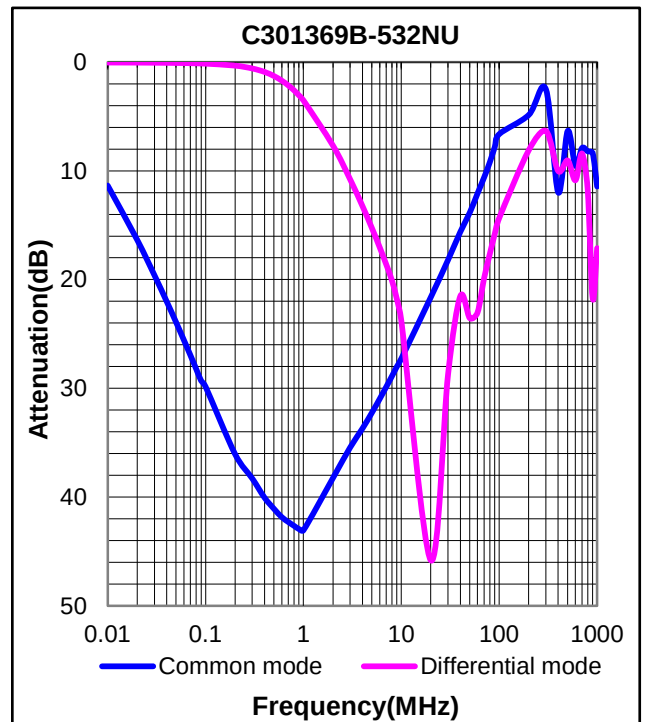
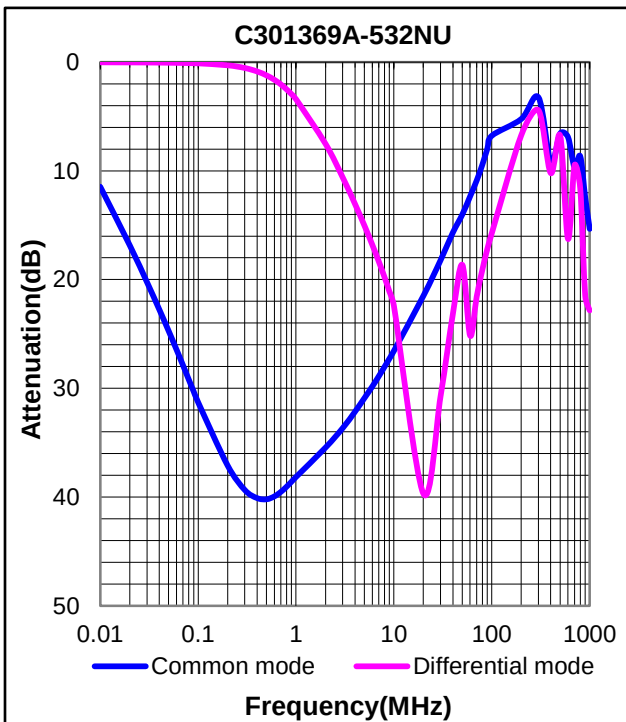
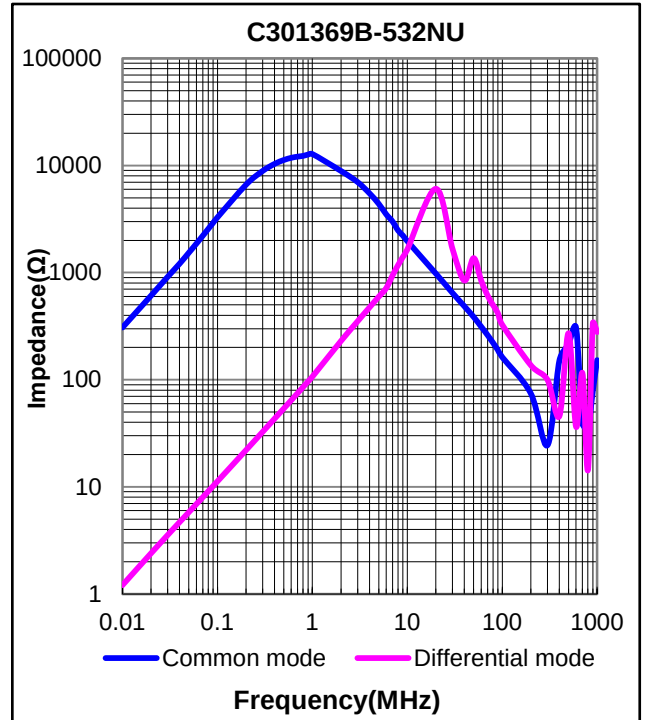
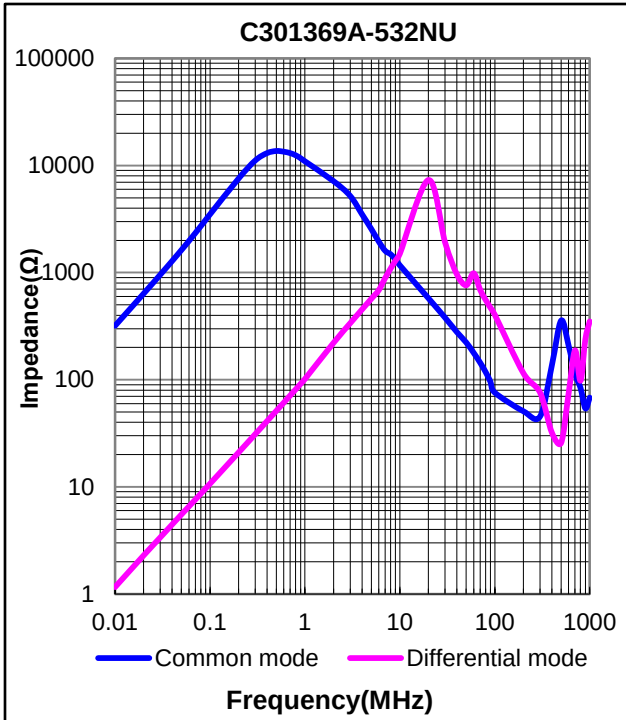
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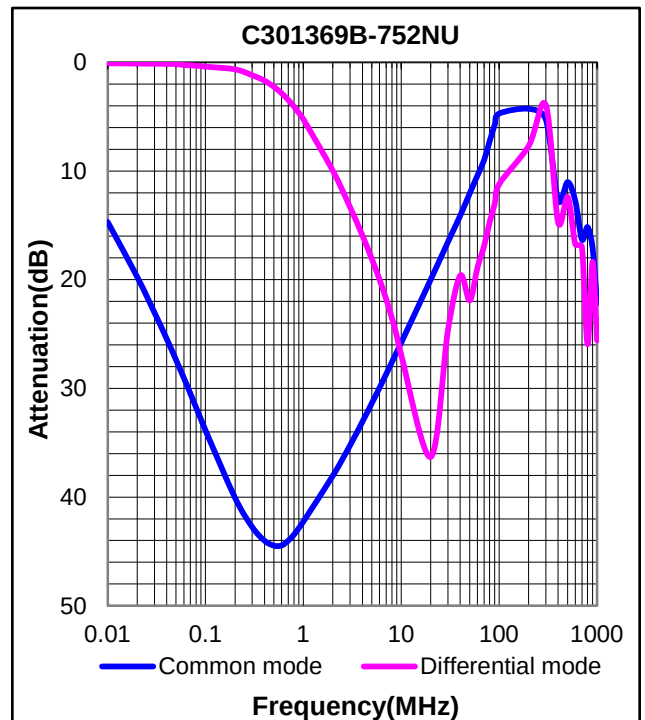
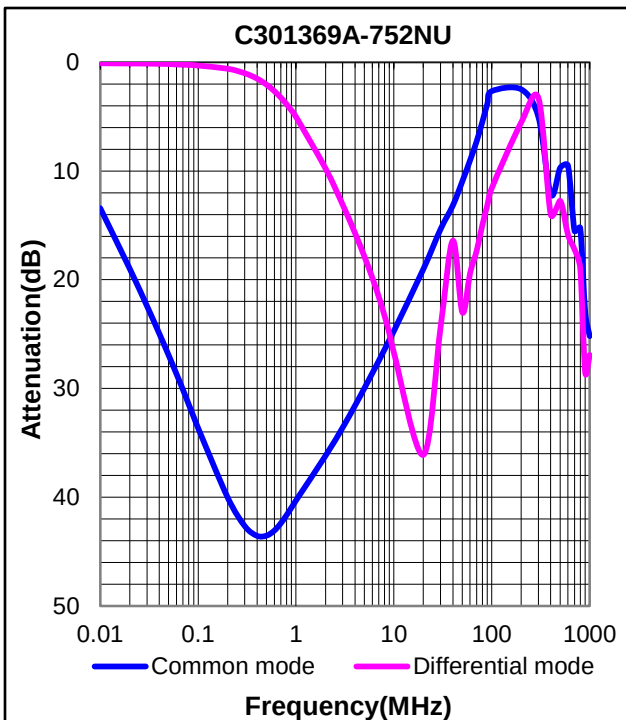
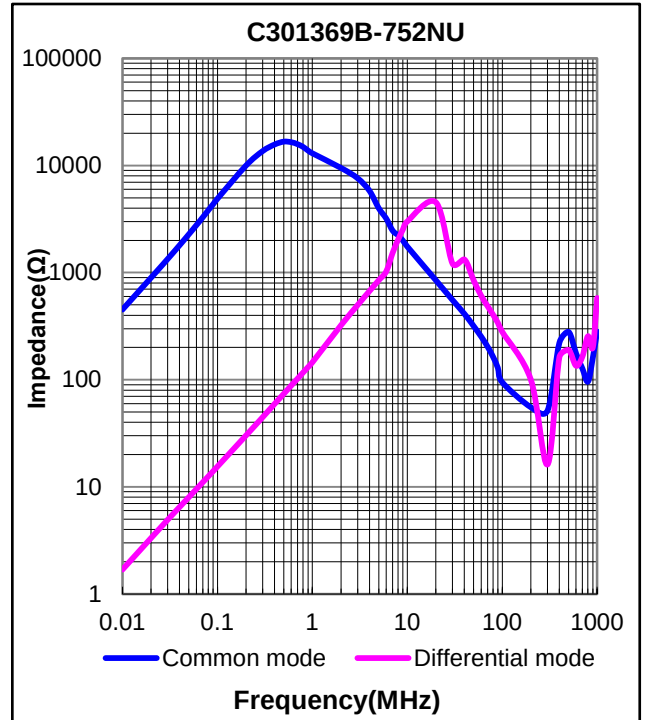
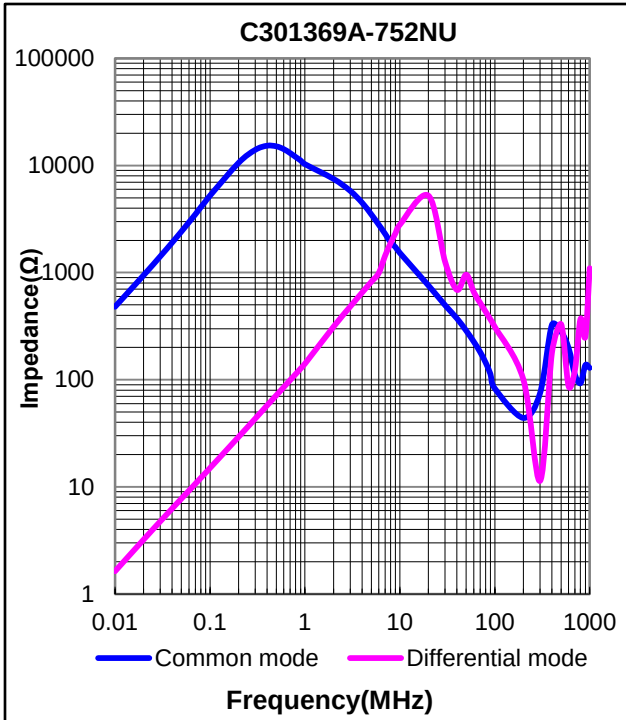
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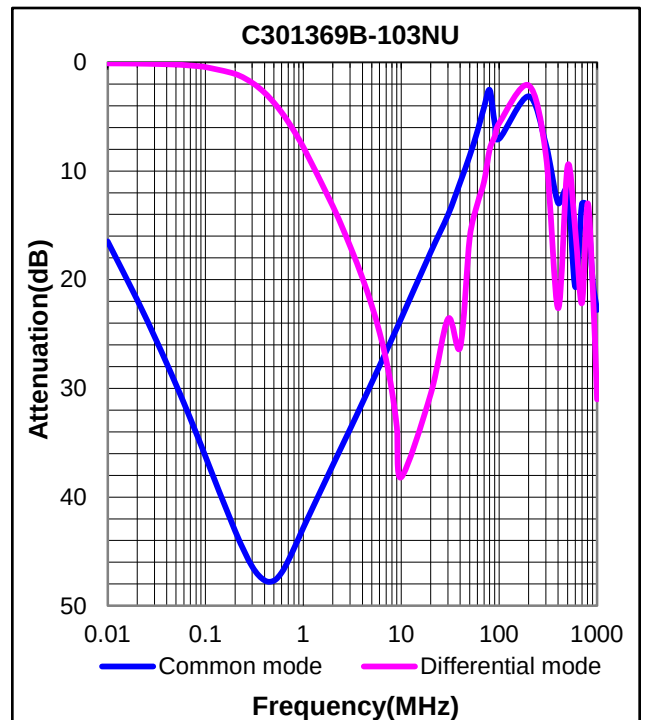
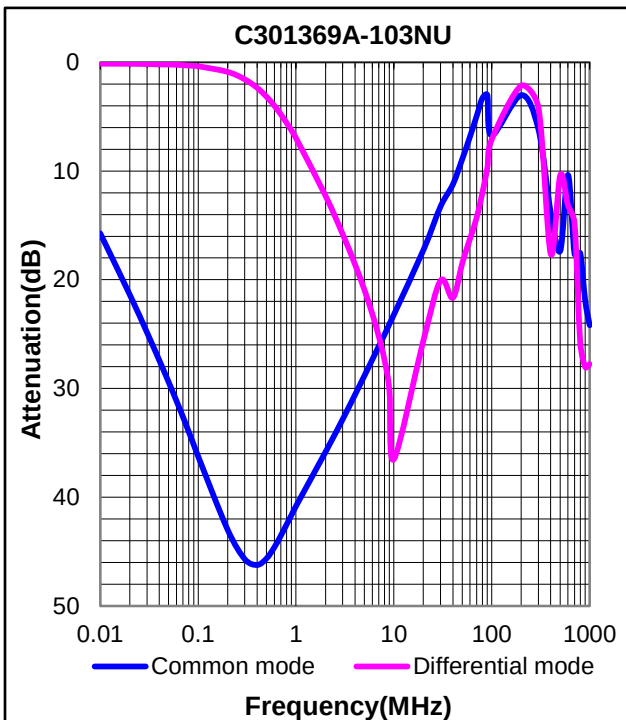
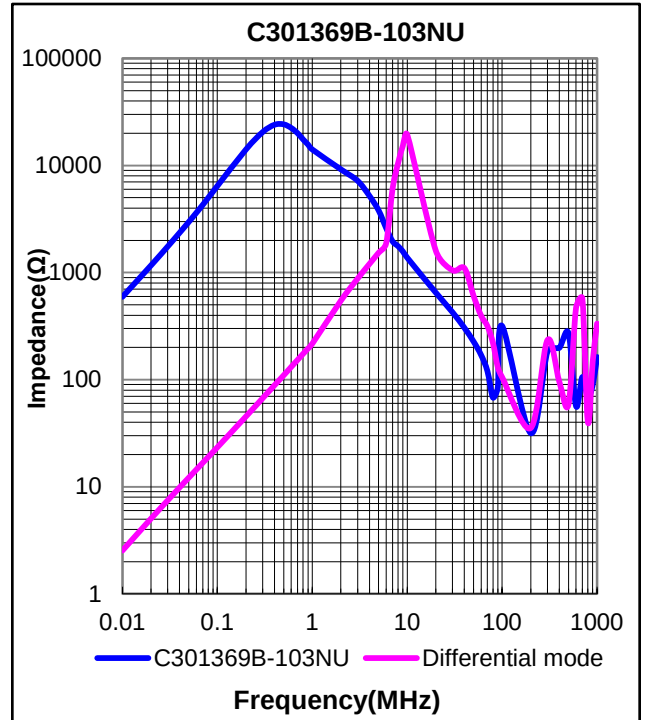
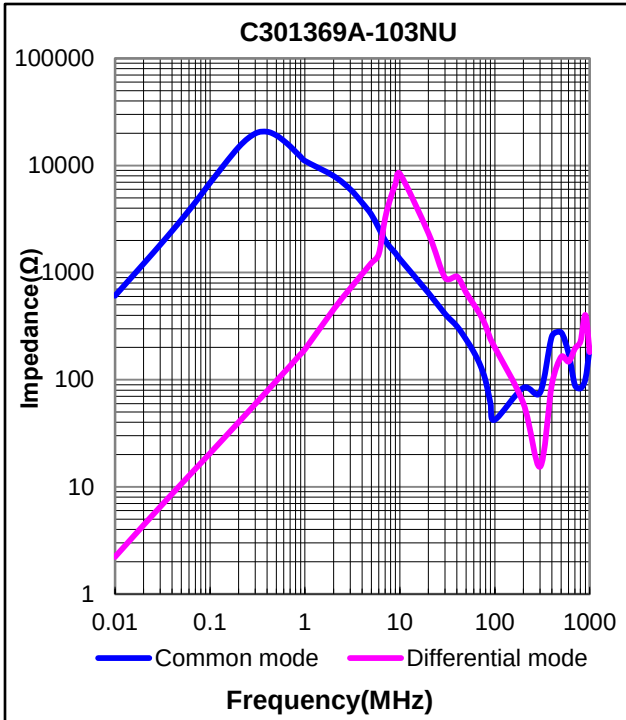
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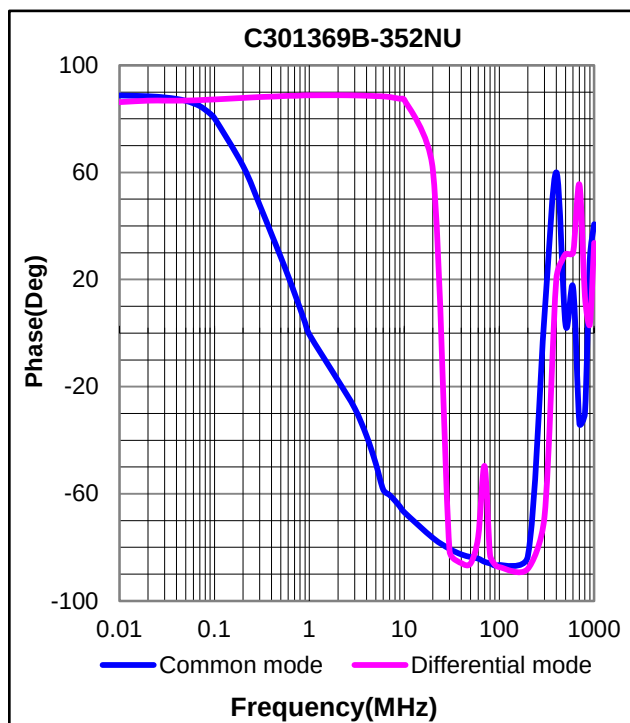
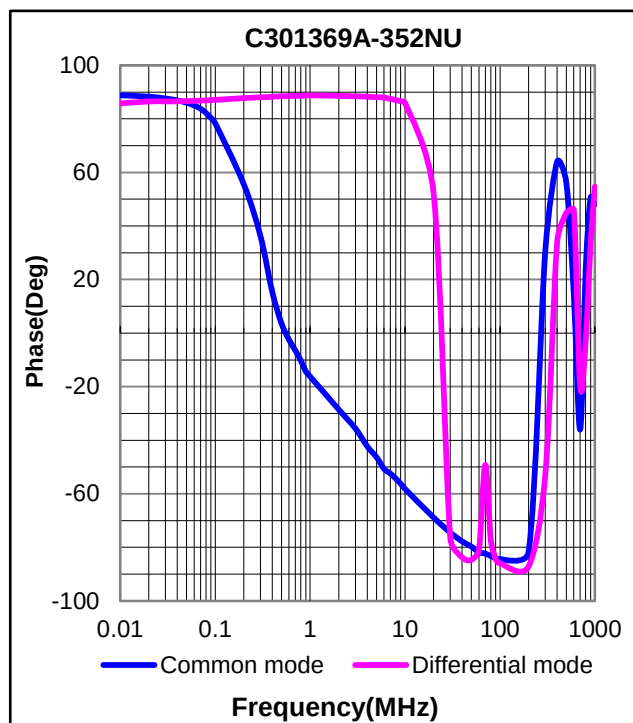
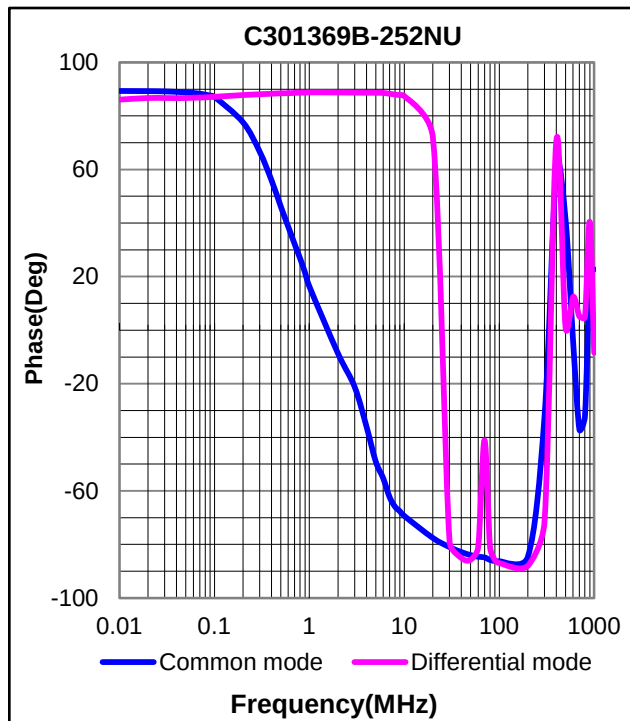
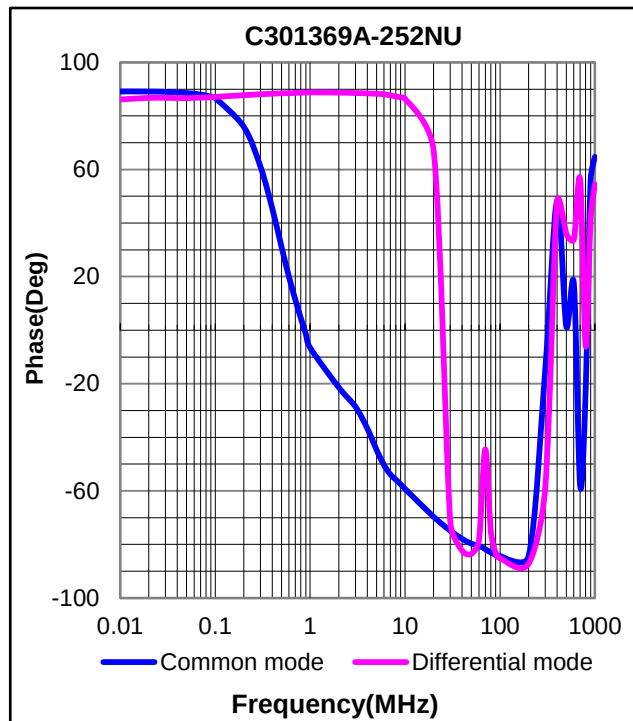
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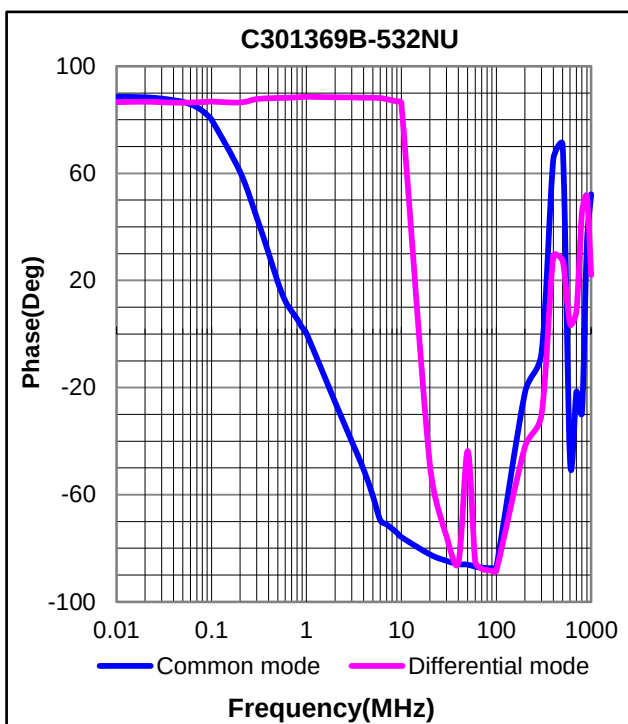
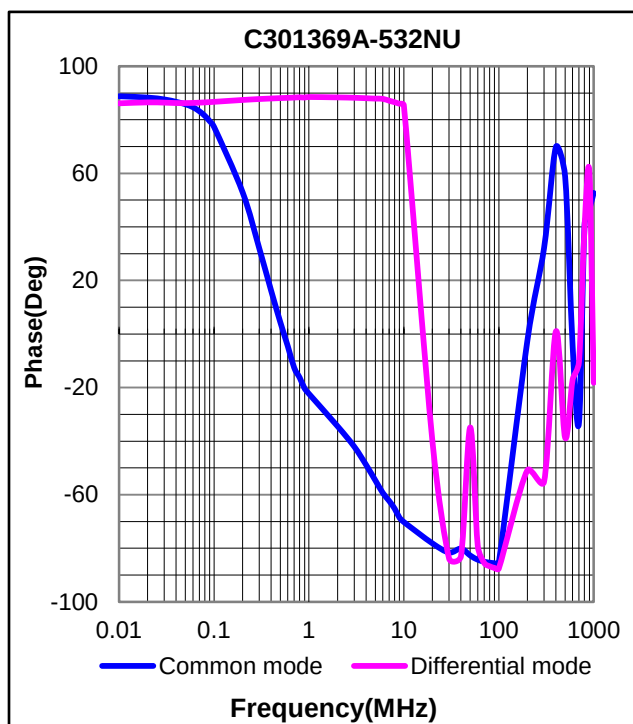
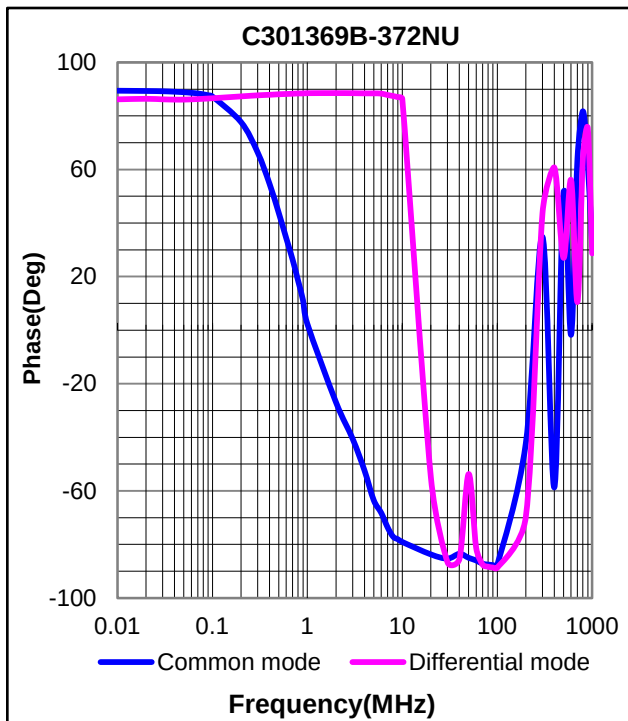
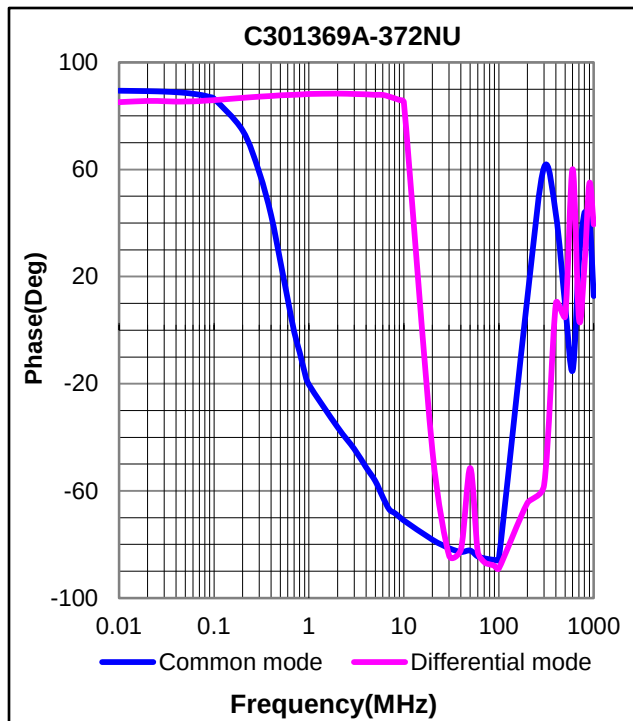
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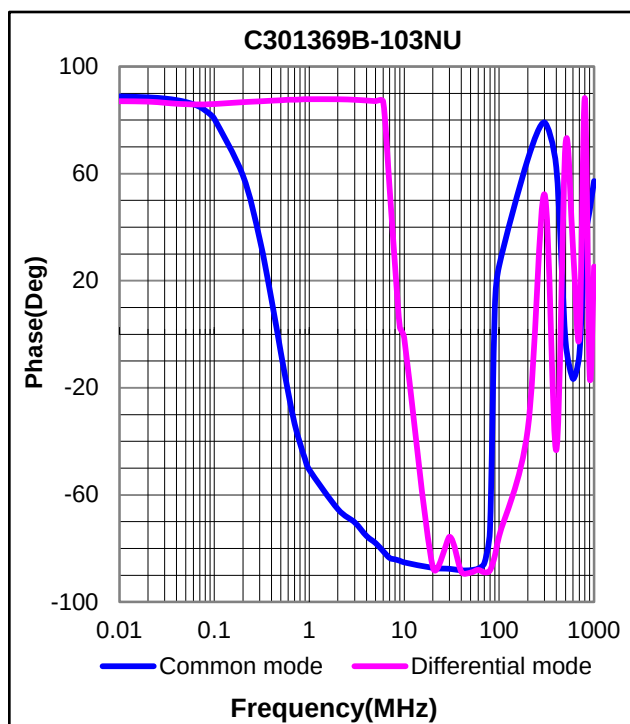
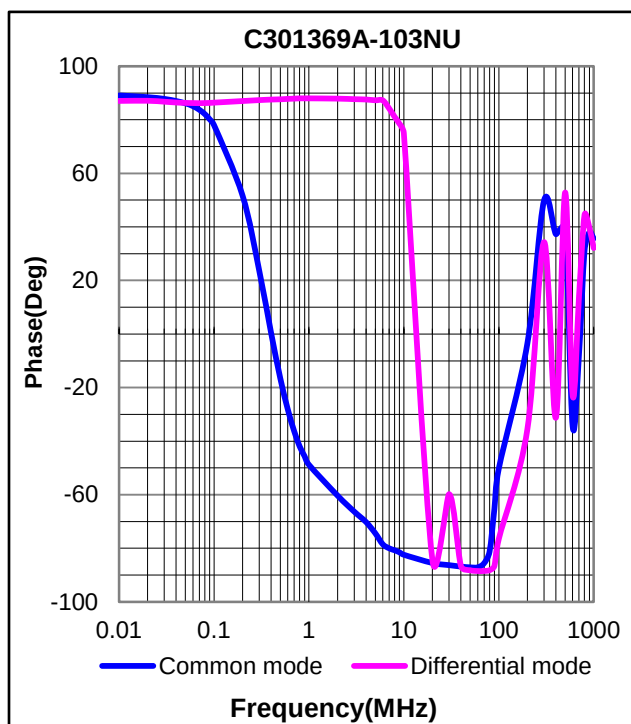
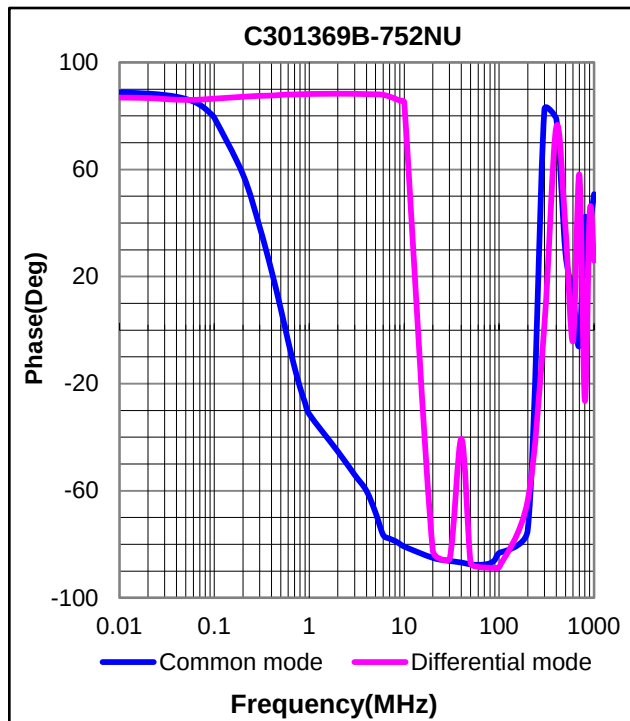
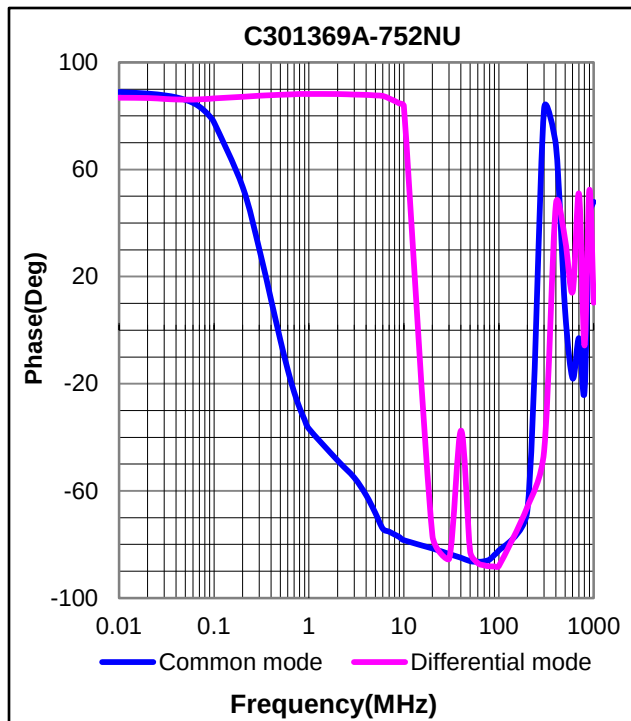
5. Typical Phase vs Frequency Curve of C301369 Series :



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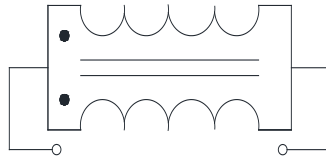




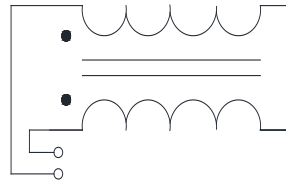
C301369 Series



Test setup :



Common Mode



Differential Mode