SMD Common Mode Choke - SPF0905 Series

Meisongbei



Features

- Dual-choke configuration.
- Small compact design
- Rated Voltage: 80 VDC

General Specifications

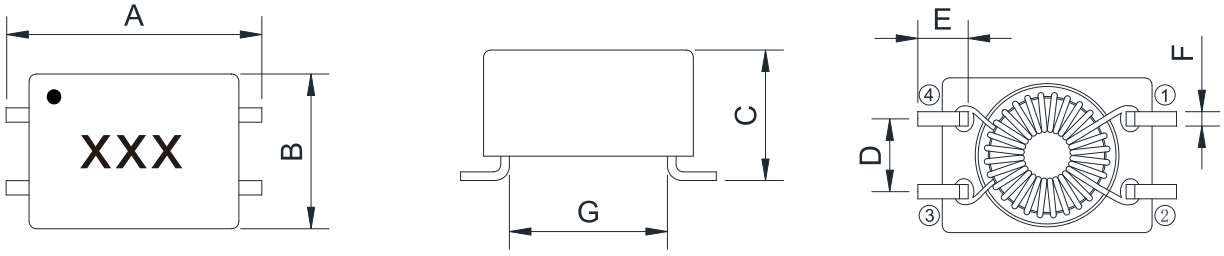
- Storage temp range: -40°C to +105°C
- Operating temp range: -40°C to +105°C

Applications

- Current compensated choke for data and signal lines
- Power supply system
- Signal and sensor lines
- Suppression of common mode noise

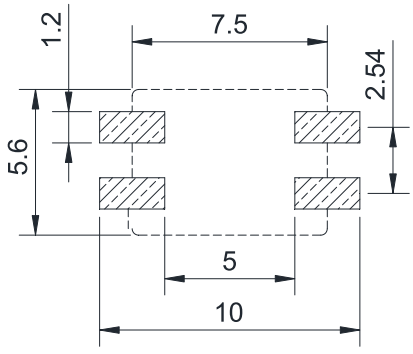
RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Dimensions & Configurations (Unit:mm)

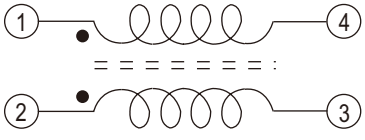


Type	A ± 0.3	B ± 0.3	C ± 0.3	D (Ref)	E (Ref)	F (Ref)	G (Ref)
SPF0905	9.0	5.4	4.6	2.54	1.8	0.5	5.5

Land Patterns(mm)



Schematic



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Electrical Characteristics For SPF0905 Series

Part Number	Inductance [uH]	Leakage Inductance (Ref) [uH]	DCR (max) [Ω]	Rated Current (max) [A]	Impedance	
					Frequency Range (MHz)	Min Value (Ω)
SPF0905-5R0N	5 ±30%	0.08	0.08	1.2	20-500	100
SPF0905-110N	11 ±30%	0.10	0.10	1.0	20-500	200
SPF0905-250N	25 ±30%	0.12	0.11	0.8	20-500	400
SPF0905-510N	51 ±30%	0.15	0.12	0.8	20-300	800
SPF0905-101Y	100 +50%/-30%	0.16	0.13	0.7	5-100	600
SPF0905-251Y	250 +50%/-30%	0.18	0.16	0.7	3-100	1000
SPF0905-471Y	470 +50%/-30%	0.20	0.20	0.7	2-50	1500
SPF0905-731Y	730 +50%/-30%	0.23	0.20	0.7	2-30	2000
SPF0905-102Y	1000 +50%/-30%	0.25	0.20	0.7	1-20	2500
SPF0905-222Y	2200 +50%/-30%	0.30	0.40	0.5	1-10	3000
SPF0905-302Y	3000 +50%/-30%	0.40	0.48	0.4	1-5	4000
SPF0905-472Y	4700 +50%/-30%	0.45	0.55	0.4	1-5	5000

- Inductance Test condition:5-1000uH, 100KHz/0.1V; 2000-4700uH, 10KHz/0.1V
- Leakage inductance is for L1 and is measured with L2 shorted
- IDC Max: the value of DC current when the temperature rise is AT40°C(Ta=25°C)
- HI-POT test (N1-N2): 500 Vac / 60Hz, 3mA, 1sec.

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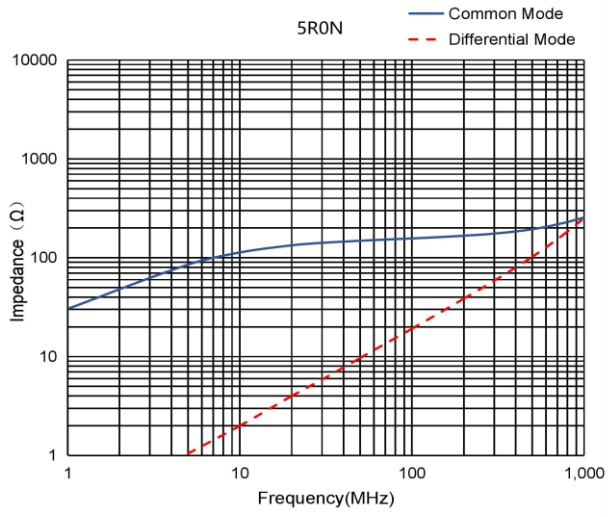
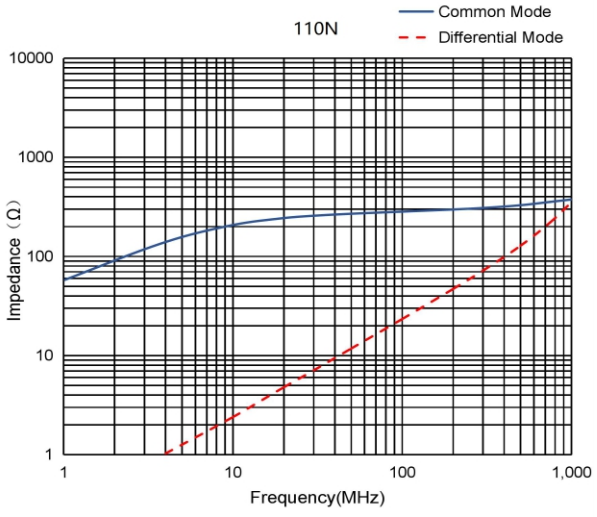
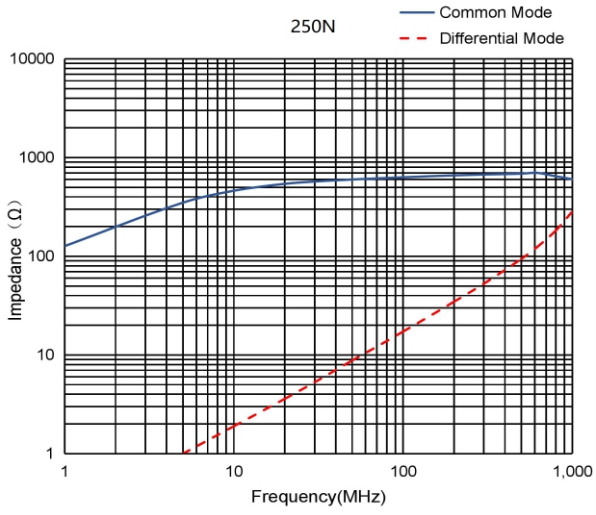
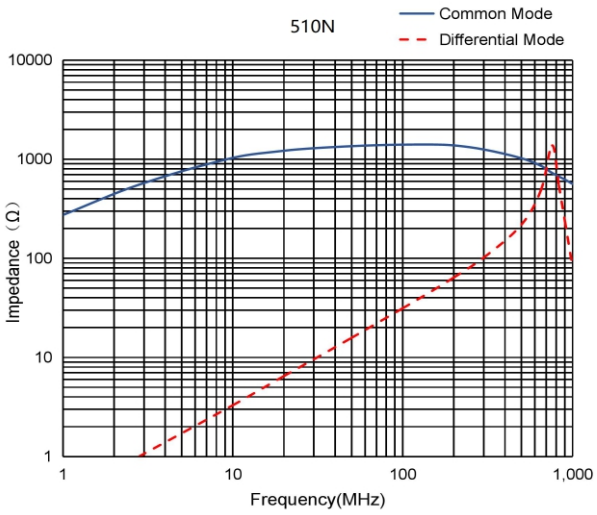
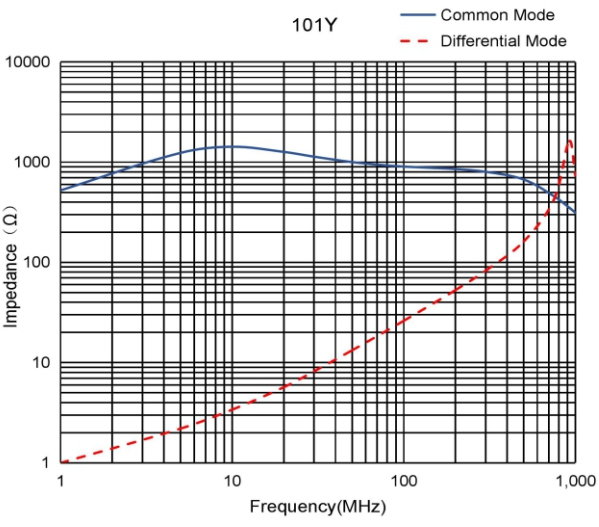
Impedance VS Frequency Curve

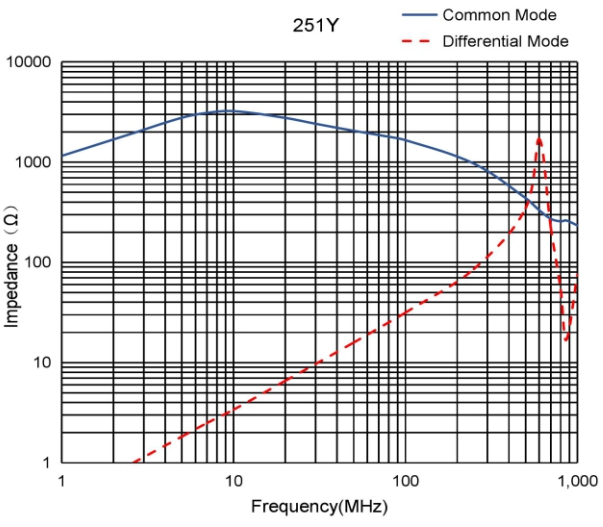












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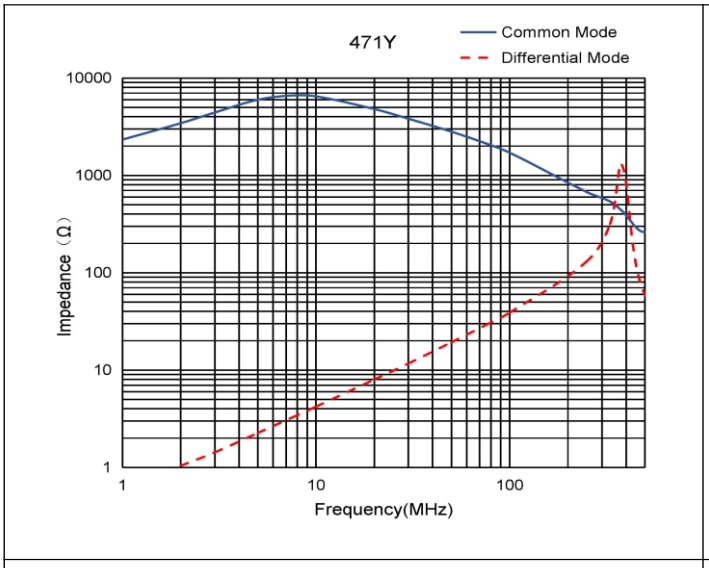
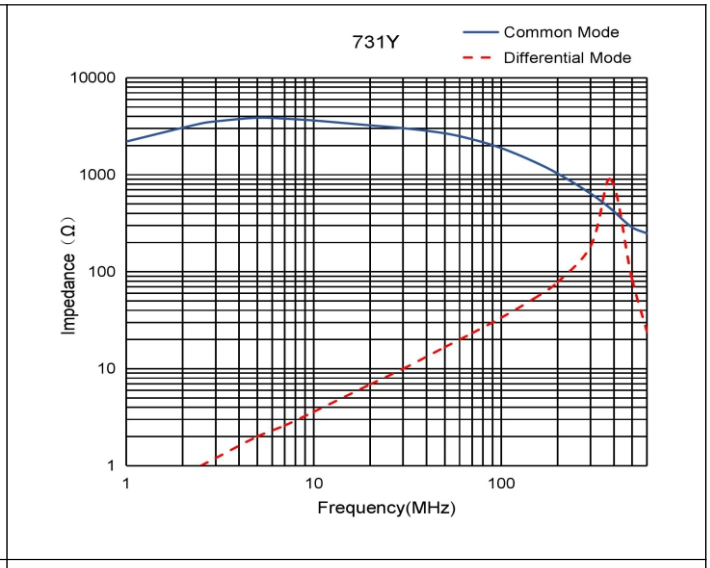
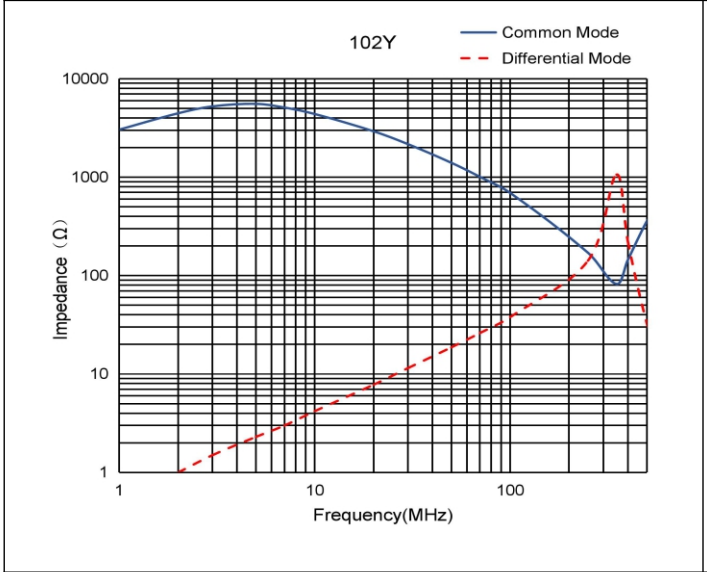
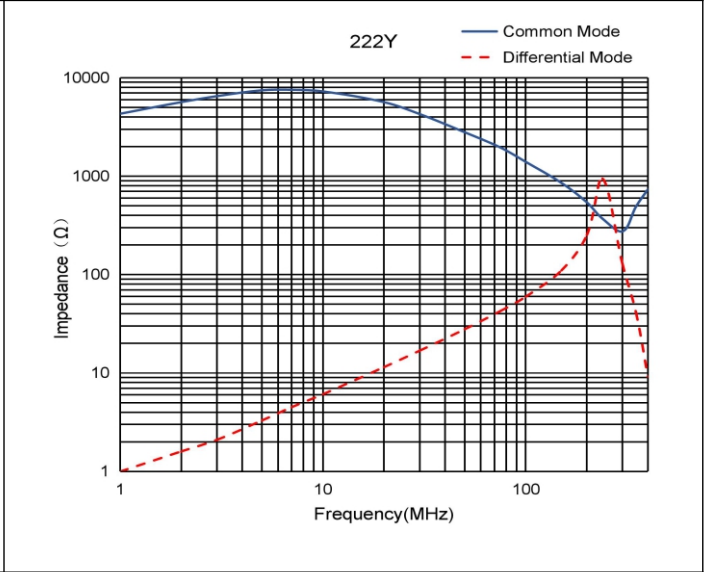
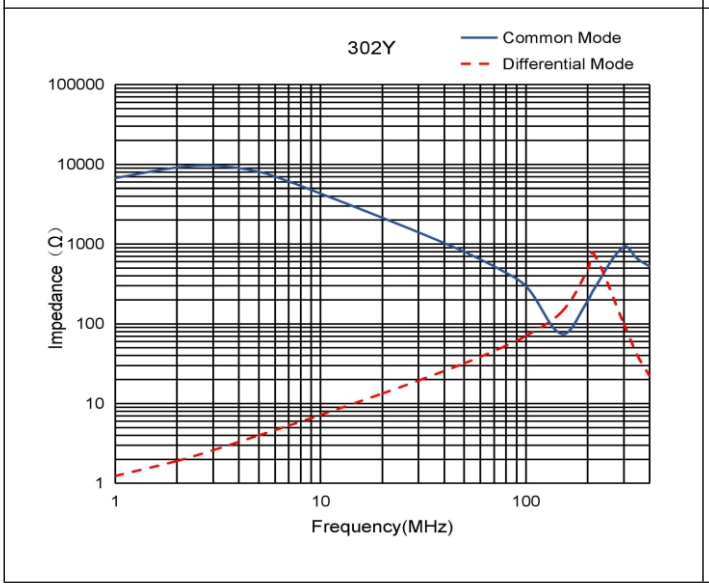
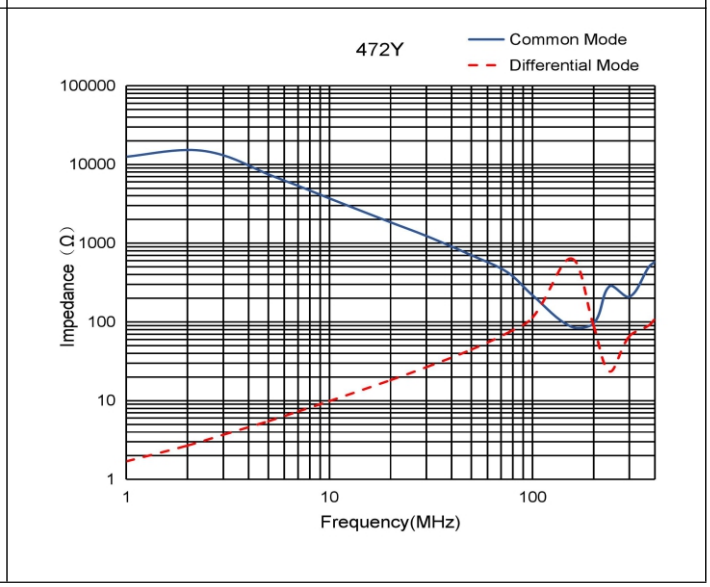




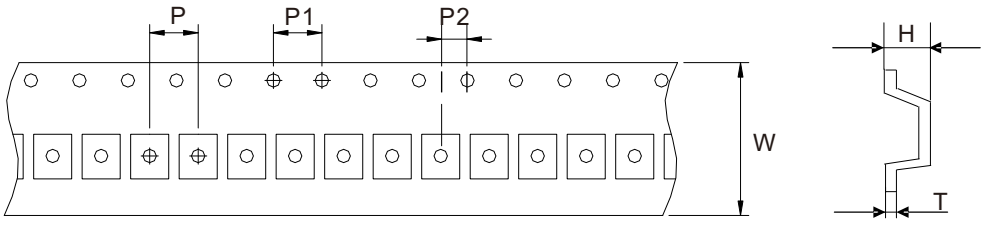






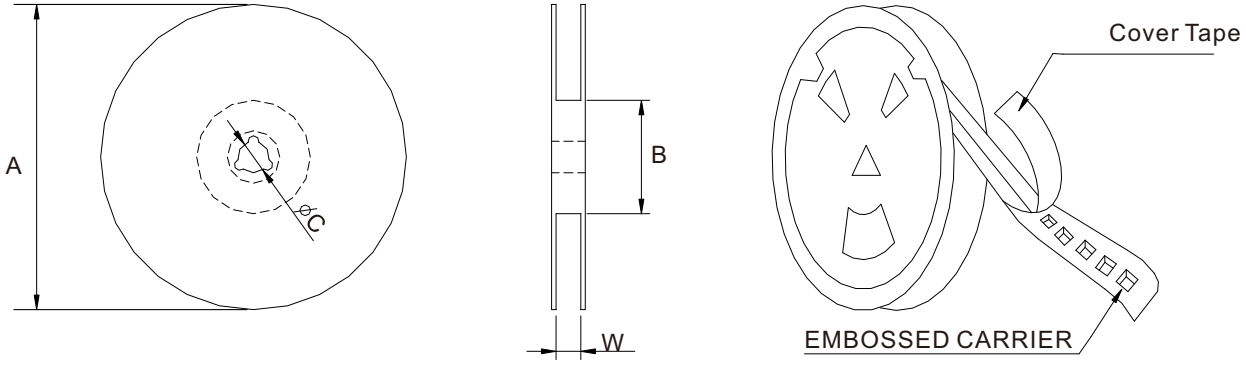


Tape & Reel Specifications:



Unit: mm

Type	Dimension	W	P	P1	P2	H	T
	Tolerance	±0.3	±0.1	±0.1	±0.1	±0.15	±0.05
SPF0905		16.0	12.0	4.0	2.0	5.00	0.35



Unit: mm

Type	Dimension	QTY Per Reel	A	B	C	W
	Tolerance	PCS	±2.0	±0.5	±0.5	±0.5
SPF0905		1500	330	100	13	16.0