Wire Wound Power Common Mode Filter WCM5555FASO-SERIES-LM

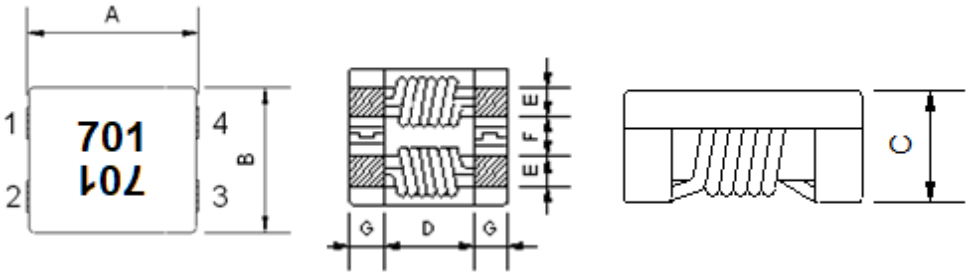
1. Features

1. Use recommended PCB footprint and stencil designs to minimize assembly risks.
2. Operating temperature-40~+125℃ (Including self - temperature rise).

Halogen-free

RoHS

2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
WCM5555	5.5±0.5	5.5±0.5	3.5 max.	3.3 typ.	1.2±0.5	1.9±0.5	1.1±0.5

Unit: mm

3. Part Numbering

WCM	5555	F	A	S	O	-	701	-	LM
A	B	C	D	E	F		G		H

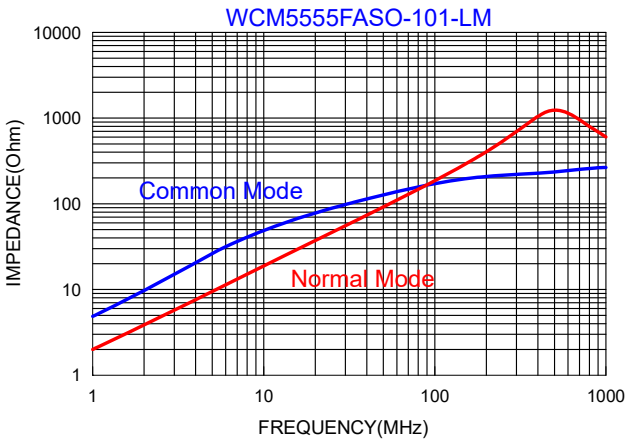
A: Series
B: Dimension
C: Material Ferrite Core
D: Process Assembled
E: Type S=Shielded, N=Unshielded
F: Category Code Industrial Grade
G: Impedance 701=700Ω
H: Laser Marking

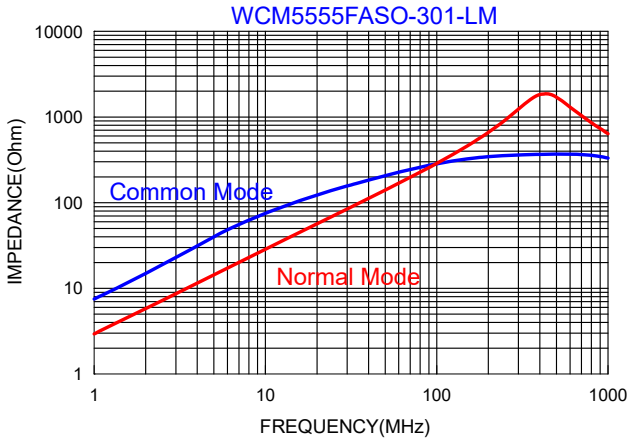
4. Specification

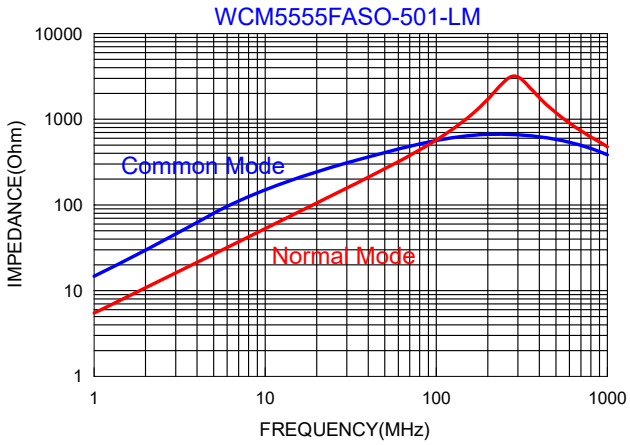
TAI-TECH Part Number	Impedance (Ω)		Test Frequency (MHz)	DC Resistance (mΩ) max. (1 line)	Rated Current (A) max.	Rated Volt. (Vdc) max.	Insulation Resistance (MΩ) min.
	min.	typ.					
WCM5555FASO-101-LM	100	140	100	6.0	8.5	80	10
WCM5555FASO-301-LM	150	300	100	7.5	4.8	80	10
WCM5555FASO-501-LM	300	500	100	10.5	4.5	80	10
WCM5555FASO-701-LM	500	700	100	13.0	3.8	80	10
WCM5555FASO-102-LM	750	1000	100	20.0	3.0	80	10
WCM5555FASO-142-LM	1000	1400	100	38.0	2.8	80	10

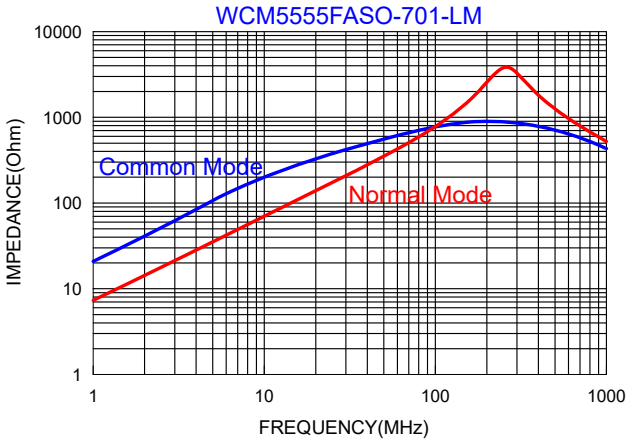
Note:

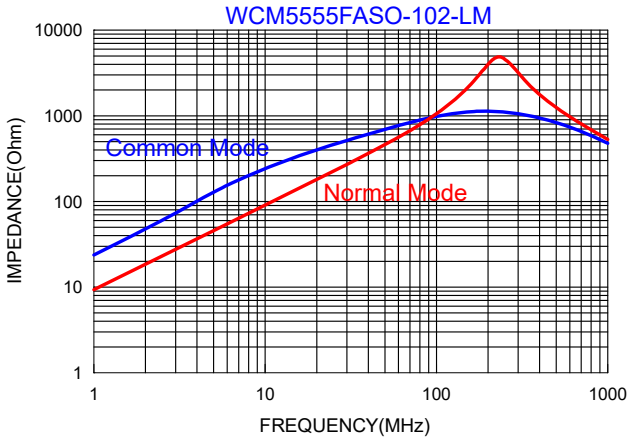
- Measurement board data
  Material : FR4
  Board dimensions : 100 X 50 X 1.6t mm
  Pattern dimensions: 45 X 30 mm (Double side board)
  Pattern thickness : 50 μm
- All test data referenced to 25℃ ambient

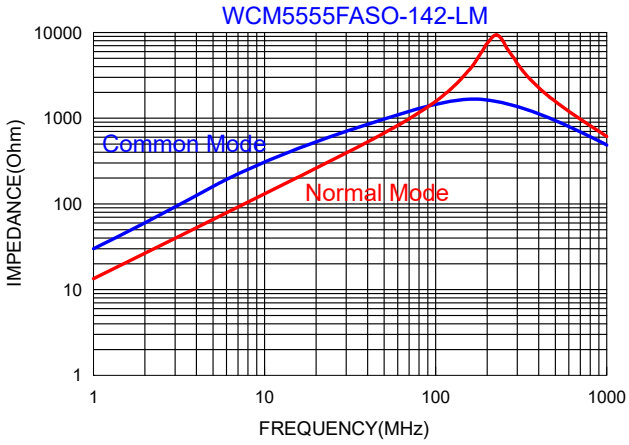

WCM5555FASO-101-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)


WCM5555FASO-301-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)


WCM5555FASO-501-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)

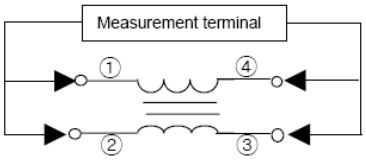

WCM5555FASO-701-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)


WCM5555FASO-102-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)

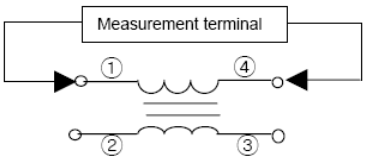

WCM5555FASO-142-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)

5. Schematic Diagram

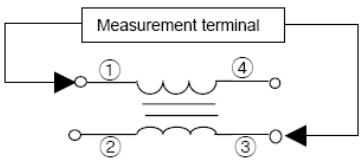
Impedance



DC Resistance



Insulation Resistance



6. Recommended PC Board Pattern

	WCM5555
L(mm)	5.9
H(mm)	4.3
G1(mm	3.3
G2(mm	1.9

