Wire Wound Power Common Mode Filter WCM9070FASO-SERIES-LM

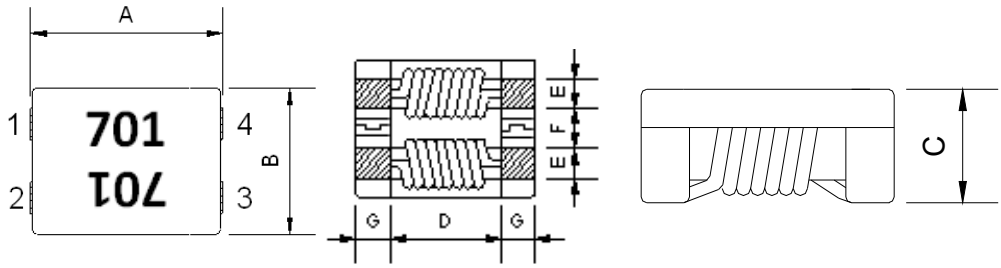
1. Features

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)
WCM9070	9.0±0.5	7.0±0.2	4.5 max.	5.3 typ.	1.5±0.5	2.1±0.5	1.8±0.5

Unit: mm

3. Part Numbering

WCM	9070	F	A	S	O	-	701	-	LM
A	B	C	D	E	F		G		H

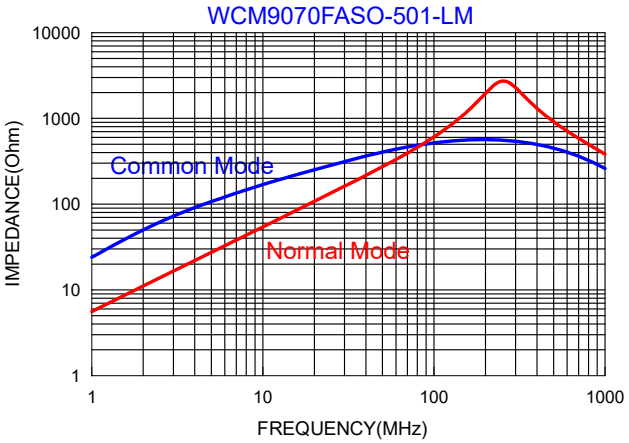
A: Series
B: Dimension
C: Material Ferrite Core
D: Process Assembled
E: Type S=Shielded, N=Unshielded
F: Category Code Industrial Grade
G: Impedance 701=700Ω
H: Laser Marking

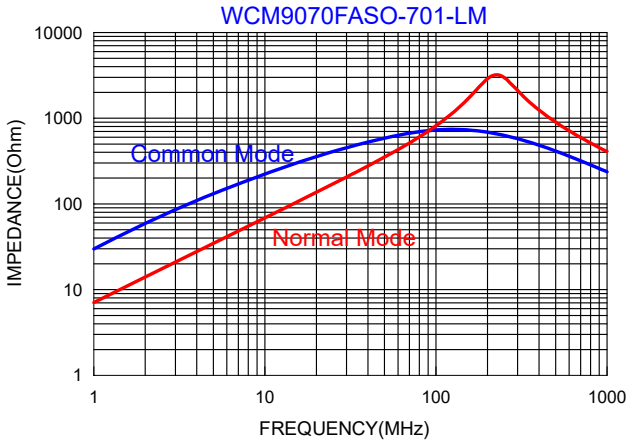
4. Specification

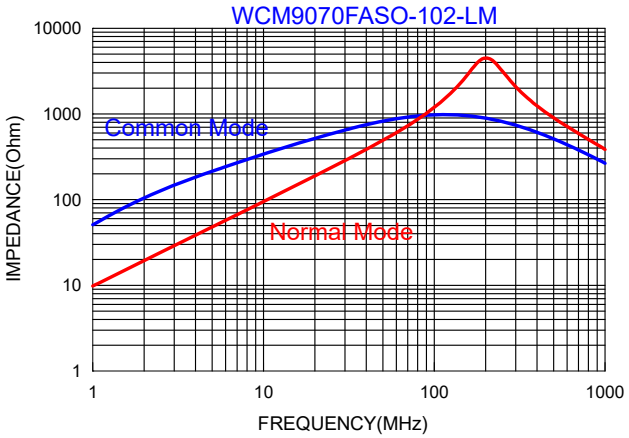
TAI-TECH Part Number	Impedance (Ω)		Test Frequency (MHz)	DCR (mΩ) max. (1 line)	Rated Current (A) max.	Rated Volt. (Vdc) max.	Insulation Resistance (MΩ) min.
	min.	typ.					
WCM9070FASO-501-LM	300	500	100	6	8.0	80	10
WCM9070FASO-701-LM	500	700	100	9	6.0	80	10
WCM9070FASO-102-LM	750	1000	100	10	5.0	80	10
WCM9070FASO-152-LM	1000	1500	100	15	4.5	80	10
WCM9070FASO-222-LM	1700	2200	100	25	4.0	80	10
WCM9070FASO-272-LM	2000	2700	100	32	3.5	80	10

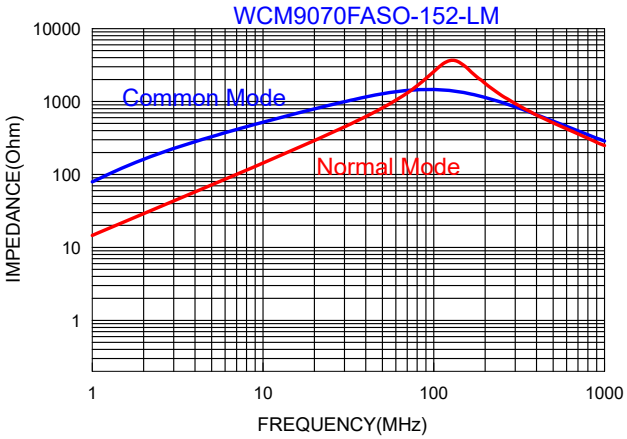
Note:

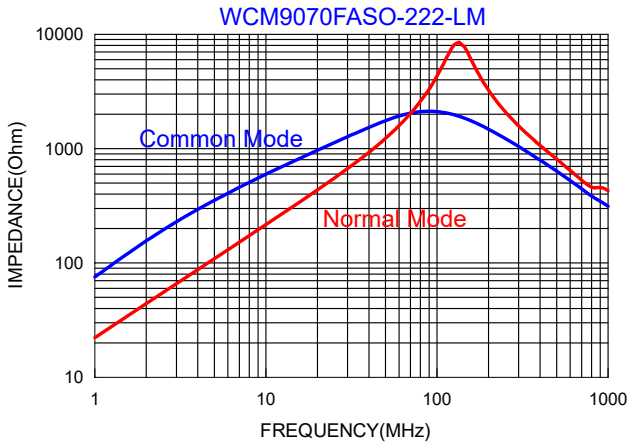
- Measurement board data
  Material : FR4
  Board dimensions : 100 X 50 X 1.6t mm
  Pattern dimensions: 45 X 30 mm (Double side board)
  Pattern thickness : 50 μm
- All test data referenced to 25℃ ambient.

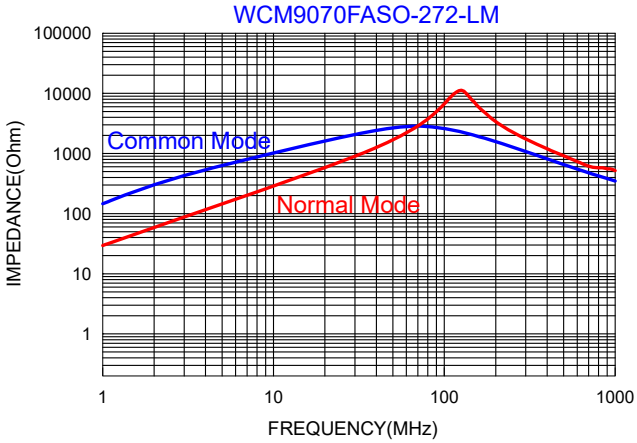

WCM9070FASO-501-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)


WCM9070FASO-701-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)


WCM9070FASO-102-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)

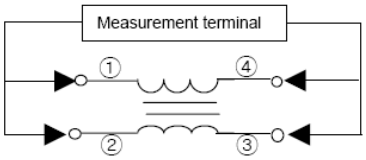

WCM9070FASO-152-LM
IMPEDANCE(Ohm)
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)


WCM9070FASO-222-LM
IMPEDANCE(Ohm)
10000
1000
100
10
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)

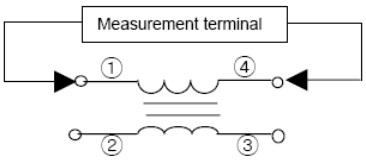

WCM9070FASO-272-LM
IMPEDANCE(Ohm)
100000
10000
1000
100
10
1
Common Mode
Normal Mode
1
10
100
1000
FREQUENCY(MHz)

5. Schematic Diagram

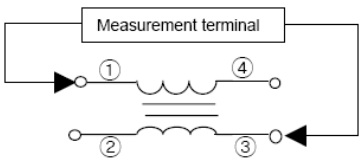
Impedance



DC Resistance



Insulation Resistance



6. Recommended PC Board Pattern

	WCM9070
L(mm)	11.0
H(mm)	5.0
G1(mm	6.0
G2(mm	2.0

