Multilayer Common Mode Choke Coils

MCF0605BF2-Series

1. Scope

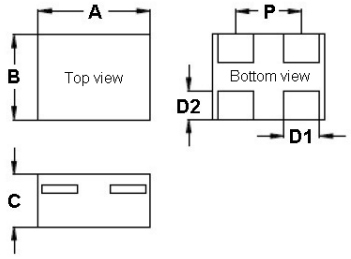
●MCF0605BF2-120T01 is a thin film common mode filter designed to suppress common mode noise for high speed differential data lines, such as Display Port, e-SATA, USB3.0, HDMI, MIPI, and MHL.USB3.1

●MCF0605BF2-900T01 is a thin film common mode filter designed to suppress common mode noise for high speed differential data lines, such as USB 2.0
These differential interfaces can be used in personal computers, note books, mobile phone, LCD/PDP/DLP TVs, Blu-ray/DVD players, personal handheld equipments, etc.

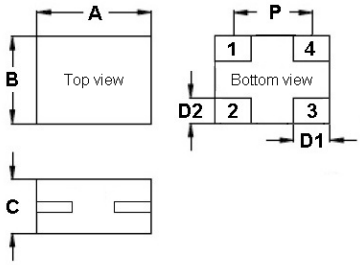
2. Dimensions

Chip Size						
Size	**A**	**B**	**C**	**P**	**D1**	**D2**
0605	0.67±0.05	0.52±0.05	0.32 ±0.05	0.45±0.05	0.20±0.05	0.15±0.10

Units: mm



Outer construction(MCF0605BF2-120T01)



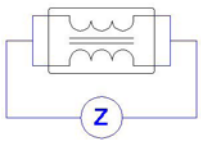
Outer construction(MCF0605BF2-900T01)

3. Part Numbering

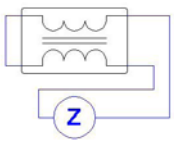
MCF	0605	BF2	-	900	T	01
A	B	C		D	E	F

A: Series
B: Dimension
C: Material Lead Free Code
D: Impedance Common Mode Impedance 900=90Ω
E: Packaging T=Taping and Reel , B=Bulk(Bags)
F: Rated Current 01=100mA

Common mode



Differential mode

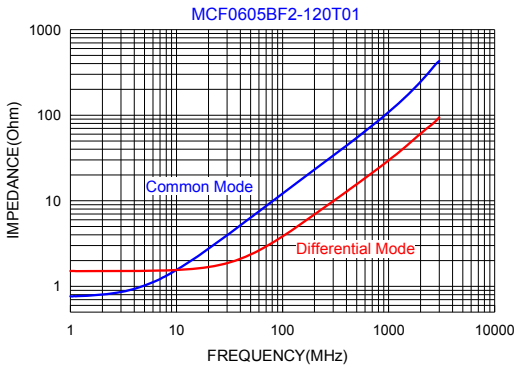


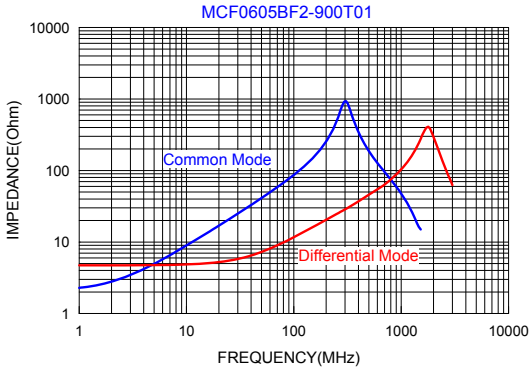
4. Specification

Tai-Tech Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Rated Voltage (Vdc) max.	Insulation Resistance (MΩ) min.	Cut-off Frequency (GHz) typ.	DC Resistance (Ω) max.	Rated Current (mA) max.
MCF0605BF2-120T01	12±5Ω	250mV / 100	5	10	10	2.0	100
MCF0605BF2-900T01	90±30%	250mV / 100	5	10	3	6.0	100

● Rated current: based on temperature rise test

Impedance-Frequency Characteristics





Multilayer Common Mode Choke Coils

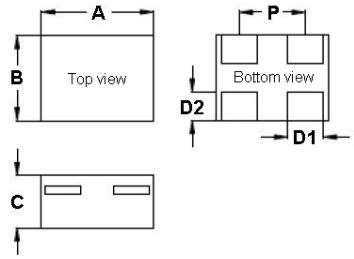
MCF0806BF2-Series

1. Scope

●MCF0806BF2-120T01 is a thin film common mode filter designed to suppress common mode noise for high speed differential data lines, such as Display Port, e-SATA, USB3.0, HDMI, MIPI, and MHL.USB3.1

●MCF0806BF2-900T01 is a thin film common mode filter designed to suppress common mode noise for high speed differential data lines, such as USB 2.0, IEEE 1394, LVDS, DVI, HDMI, and MIPI.
These differential interfaces can be used in personal computers, note books, mobile phone, LCD/PDP/DLP TVs, Blu-ray/DVD players, personal handheld equipments, etc.

2. Dimensions



Chip Size						
Size	**A**	**B**	**C**	**P**	**D1**	**D2**
0806	0.85±0.05	0.65±0.05	0.40 ±0.05	0.50±0.1	0.27±0.1	0.20±0.1

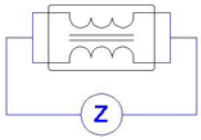
Units: mm

3. Part Numbering

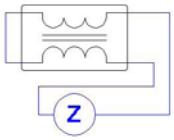
MCF	0806	BF2	-	900	T	01
A	B	C		D	E	F

A: Series
B: Dimension
C: Material Lead Free Code
D: Impedance Common Mode Impedance 900=90Ω
E: Packaging T=Taping and Reel , B=Bulk(Bags)
F: Rated Current 01=100mA

Common mode



Differential mode

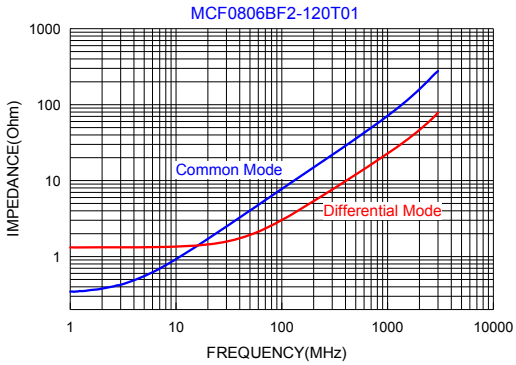


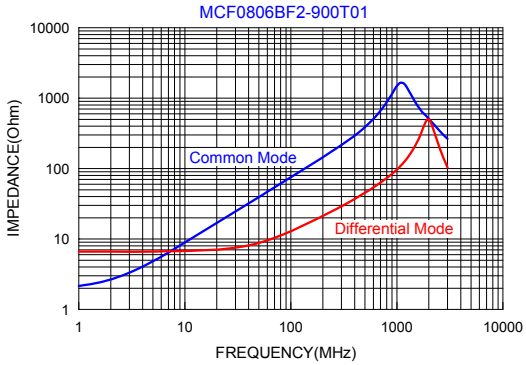
4. Specification

Tai-Tech Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Rated Voltage (Vdc) max.	Insulation Resistance (MΩ) min.	Cut-off Frequency (GHz) typ.	DC Resistance (Ω) max.	Rated Current (mA) max.
MCF0806BF2-120T01	12±5Ω	250mV / 100	5	10	10	2.0	100
MCF0806BF2-900T01	90±25%	250mV / 100	5	10	4	3.5	100

● Rated current: based on temperature rise test

Impedance-Frequency Characteristics





Multilayer Common Mode Choke Coils

MCF1210NF2-Series

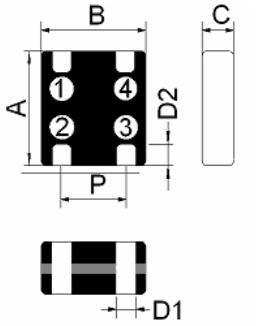
1. Scope

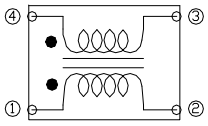
This specification applies to Multilayer Common Mode Choke Coil, MCF Series Its Application is limited for the High speed differential transmission line like as followings.
USB, LVDS, MIPI, MDDI, MHL, HDMI, DVI.

2. Dimensions

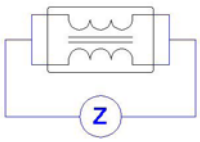
Chip Size						
Size	**A**	**B**	**C**	**P**	**D1**	**D2**
1210	1.25±0.15	1.00±0.15	0.55 ±0.10	0.55±0.10	0.30±0.10	0.20±0.10

Units: mm

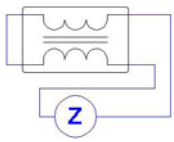




Common mode



Differential mode



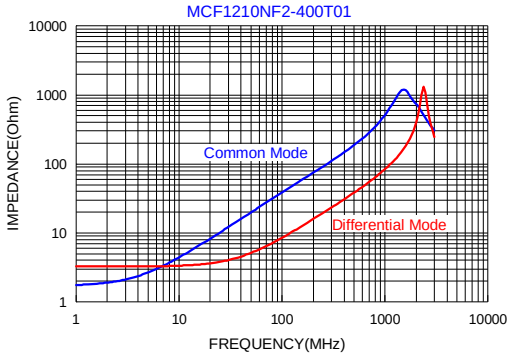
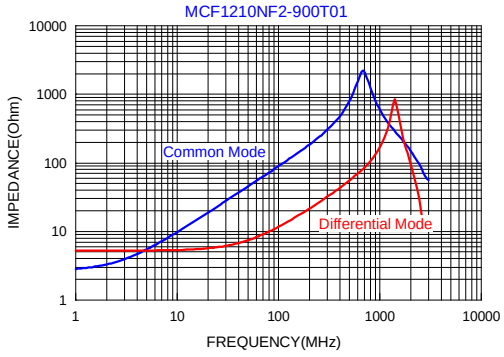
3. Part Numbering

MCF	1210	NF2	-	900	T	01
A	B	C		D	E	F

A: Series
B: Dimension A x B
C: Material Lead Free Code
D: Impedance Common Mode Impedance 900=90Ω
E: Packaging T=Taping and Reel , B=Bulk(Bags)
F: Rated Current 01=100mA

4. Specification

Tai-Tech Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Rated Voltage (Vdc) max.	Insulation Resistance (MΩ) min.	DC Resistance (Ω) max.	Rated Current (mA) max.
MCF1210NF2-400T01	40±25%	100	5	100	2.5	100
MCF1210NF2-900T01	90±25%	100	5	100	4.5	100

● Rated current: based on temperature rise test

Impedance-Frequency Characteristics