

## Wire Wound Common Mode Choke Coil-CMF Series

### 绕线式共模滤波器-ZCFM系列



## Introduction and Characteristics 产品介绍及特性

### INTRODUCTION

◆ The ZCFM series is effective for common mode noise suppression in differential signal. A full series of common mode choke is designed for excellent noise attenuation with compact sizing for use in wide range of applications.

### 产品介绍

◆ ZCFM 系列能有效的抑制差分型号上的高频共模杂讯。绕线共模由于其优秀的衰减噪音及小尺寸特点而得到广泛应用。

### CHARACTERISTICS

- ◆ Excellent solderability and high heat resistance for reflow soldering or wave soldering
- ◆ Minature size, suitable for SMT
- ◆ With large coupling coefficient little impact on high-speed differential signal
- ◆ Prevention of common mode noise at high frequency

### 特性

- ◆ 良好的焊接性，适合于回流焊或波峰焊
- ◆ 体积小，适合高密度表面贴装
- ◆ 耦合系数大，对高速差分信号影响小
- ◆ 对高频共模噪声有很好的抑制

### APPLICATIONS

- ◆ USB lines of PC, peripheral equipments
- ◆ LVDS lines of note PC, LCD
- ◆ Redialed noise suppression on digital product clock lines signal lines and suppression noise on circuit

### 应用产品

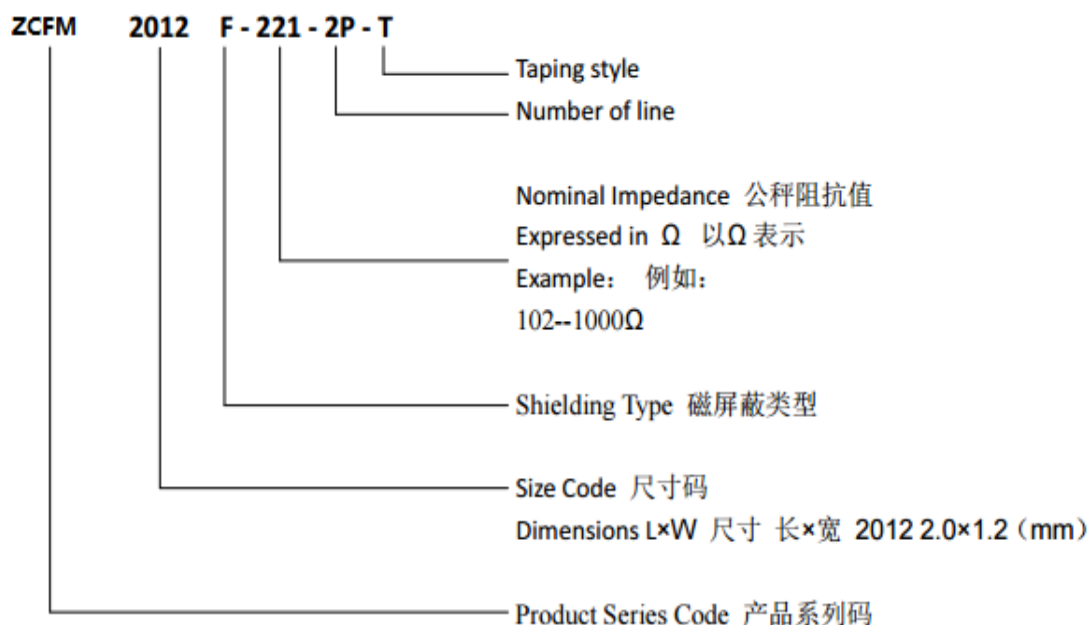
- ◆ 电脑及外设 USB 线
- ◆ 笔记本电脑、LCD 的 LVDS 线
- ◆ 用于数据传输线、信号线。电源及回路部分的抗干扰

# Wire Wound Common Mode Choke Coil-CMF Series

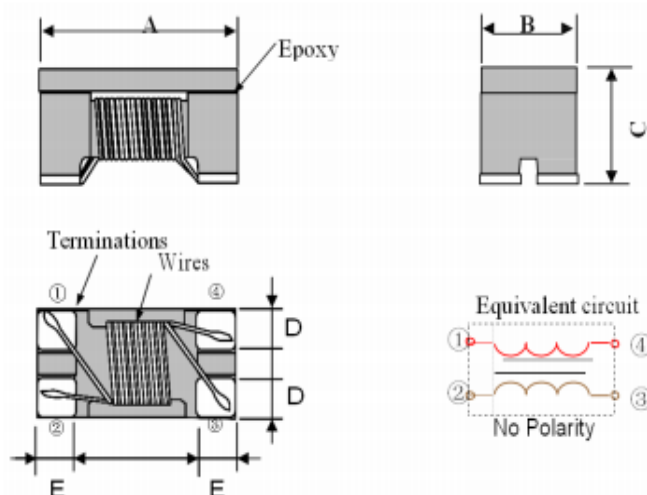
## 绕线式共模滤波器- ZCFM系列



### PRODUCT IDENTIFICATION 产品型号



### SHAPE AND DIMENSIONS 外观尺寸



SIZE 尺寸	A mm	B mm	C mm	D mm	E mm
1210(0504)	1.2±0.2	1.0±0.2	0.8±0.1	(0.36)	(0.33)
1608(0603)	1.6±0.1	0.8±0.1	1.1±0.1	(0.25)	(0.33)
2012(0805)	2.0±0.2	1.2±0.2	1.2±0.2	(0.40)	(0.45)
3216(1206)	3.2±0.2	1.6±0.2	1.8±0.2	(0.60)	(0.60)
4532(1812)	4.5±0.2	3.2±0.2	2.8±0.2	(1.20)	(1.00)

## SPECIFICATIONS 规格特性

### ZCMF 1210(0504) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Thickness 厚度
Units 单位	$\Omega \pm 25\%$	$\Omega$ (Min. )	$\Omega$ (Max. )	mA (Max. )	V (Max. )	mm
ZCMF1210F-350-2P-T	35	10M	0.18	430	20	0.8±0.1
ZCMF1210F-600-2P-T	60	10M	0.30	400	20	0.8±0.1
ZCMF1210F-900-2P-T	90	10M	0.30	400	20	0.8±0.1
ZCMF1210F-161-2P-T	160	10M	0.60	260	20	0.8±0.1

### ZCMF 1608(0603) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Thickness 厚度
Units 单位	$\Omega \pm 25\%$	$\Omega$ (Min. )	$\Omega$ (Max. )	mA (Max. )	V (Max. )	mm
ZCMF1608F-250-2P-T	25	10M	0.10	500	20	1.1±0.1
ZCMF1608F-600-2P-T	60	10M	0.20	350	20	1.1±0.1
ZCMF1608F-900-2P-T	90	10M	0.25	300	20	1.1±0.1
ZCMF1608F-141-2P-T	140	10M	0.25	300	20	1.1±0.1
ZCMF1608F-221-2P-T	220	10M	0.25	300	20	1.1±0.1

### ZCMF 2012(0805) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 Ir	Rated Voltage 额定电压 Vdc	Thickness 厚度
Units 单位	$\Omega \pm 25\%$	$\Omega$ (Min. )	$\Omega$ (Max. )	mA (Max. )	V (Max. )	mm
ZCMF 2012F-300-2P-T	30	10M	0.20	450	50	1.2±0.2
ZCMF 2012F-400-2P-T	40	10M	0.12	500	50	1.2±0.2
ZCMF 2012F-670-2P-T	67	10M	0.25	400	50	1.2±0.2
ZCMF 2012F-750-2P-T	75	10M	0.30	400	50	1.2±0.2
ZCMF 2012F-900-2P-T	90	10M	0.30	400	50	1.2±0.2
ZCMF 2012F-121-2P-T	120	10M	0.30	370	50	1.2±0.2
ZCMF 2012F-161-2P-T	160	10M	0.30	340	50	1.2±0.2
ZCMF 2012F-181-2P-T	180	10M	0.35	330	50	1.2±0.2
ZCMF 2012F-201-2P-T	200	10M	0.35	330	50	1.2±0.2
ZCMF 2012F-221-2P-T	220	10M	0.35	330	50	1.2±0.2
ZCMF 2012F-261-2P-T	260	10M	0.40	300	50	1.2±0.2
ZCMF 2012F-371-2P-T	370	10M	0.40	280	50	1.2±0.2
ZCMF 2012F-601-2P-T	600	10M	0.375	250	50	1.2±0.2
ZCMF 2012F-671-2P-T	670	10M	0.60	150	50	1.2±0.2
ZCMF 2012F-901-2P-T	900	10M	0.80	120	50	1.2±0.2

ZCMF2012F-102-2P-T	1000	10M	0.80	100	50	1.2±0.2
ZCMF2012F-222-2P-T	2200	10M	1.40	100	50	1.2±0.2

## SPECIFICATIONS 规格特性

### ZCMF 3216(1206) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 I <sub>r</sub>	Rated Voltage 额定电压 V <sub>dc</sub>	Thickness 厚度
Units 单位	Ω ±25%	Ω (Min. )	Ω (Max. )	mA (Max. )	V (Max. )	mm
ZCMF3216F670-2P-T	67	10M	0.30	500	50	1.8±0.2
ZCMF3216F750-2P-T	75	10M	0.30	500	50	1.8±0.2
ZCMF3216F900-2P-T	90	10M	0.30	500	50	1.8±0.2
ZCMF3216F101-2P-T	100	10M	0.30	500	50	1.8±0.2
ZCMF3216F121-2P-T	120	10M	0.30	370	50	1.8±0.2
ZCMF3216F161-2P-T	160	10M	0.40	340	50	1.8±0.2
ZCMF3216F181-2P-T	180	10M	0.40	340	50	1.8±0.2
ZCMF3216F261-2P-T	260	10M	0.50	310	50	1.8±0.2
ZCMF3216F281-2P-T	280	10M	0.50	310	50	1.8±0.2
ZCMF3216F361-2P-T	360	10M	0.50	280	50	1.8±0.2
ZCMF3216F371-2P-T	370	10M	0.50	280	50	1.8±0.2
ZCMF3216F431-2P-T	430	10M	0.60	280	50	1.8±0.2
ZCMF3216F601-2P-T	600	10M	0.80	260	50	1.8±0.2
ZCMF3216F102-2P-T	1000	10M	1.00	230	50	1.8±0.2
ZCMF3216F222-2P-T	2200	10M	1.20	200	50	1.8±0.2

## SPECIFICATIONS 规格特性

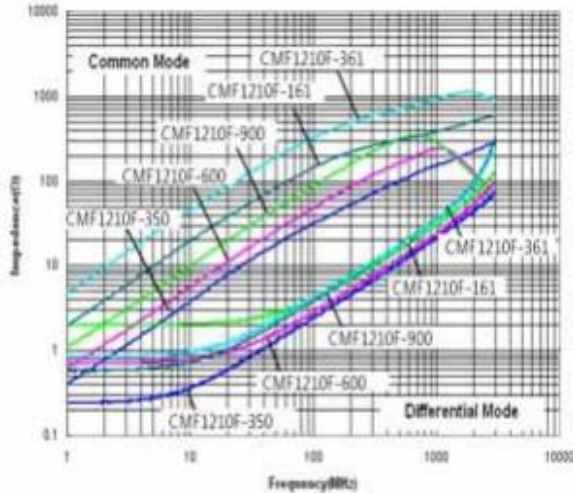
### ZCMF 4532(1812) TYPE

Part Number 型号	Impedance At 100MHz 阻抗 Z	Insulation resistance 绝缘阻抗 IR	DC Resistance 直流电阻 RDC	Rated Current 额定电流 I <sub>r</sub>	Rated Voltage 额定电压 V <sub>dc</sub>	Thickness 厚度
Units 单位	Ω ±25%	Ω (Min. )	Ω (Max. )	mA (Max. )	V (Max. )	mm
ZCMF4532F800-2P-T	80	10M	0.07	3000	50	2.8±0.2
ZCMF4532F900-2P-T	90	10M	0.07	3000	50	2.8±0.2
ZCMF4532F121-2P-T	120	10M	0.07	3000	50	2.8±0.2
ZCMF4532F601-2P-T	600	10M	0.30	1500	50	2.8±0.2
ZCMF4532F102-2P-T	1000	10M	0.40	1000	50	2.8±0.2
ZCMF4532F142-2P-T	1400	10M	0.20	1500	50	2.8±0.2

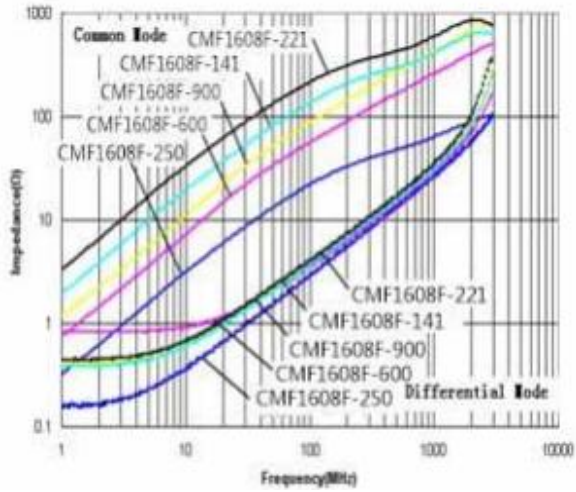
# TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## COMMON MODE & DIFFERENTIAL MODE vs. FREQUENCY

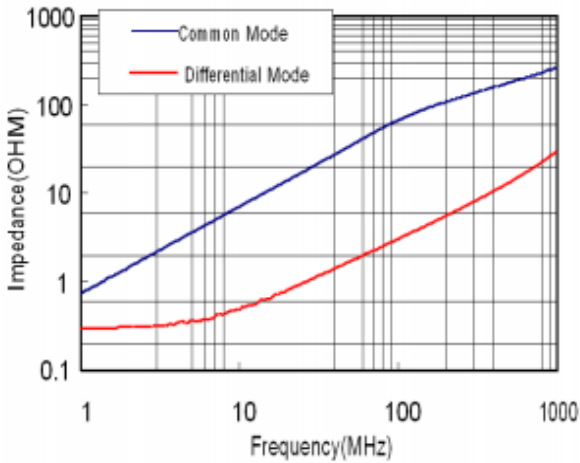
**ZCMF 1210**



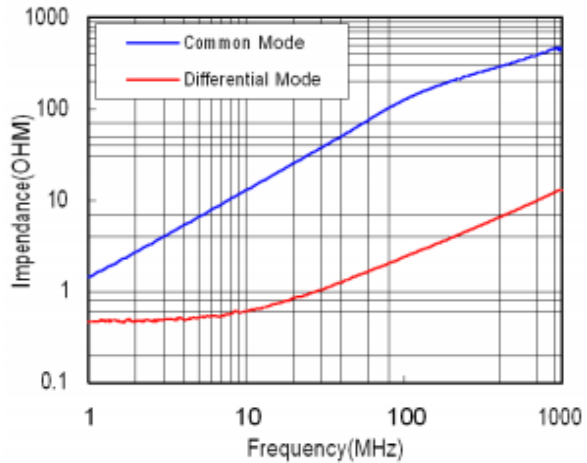
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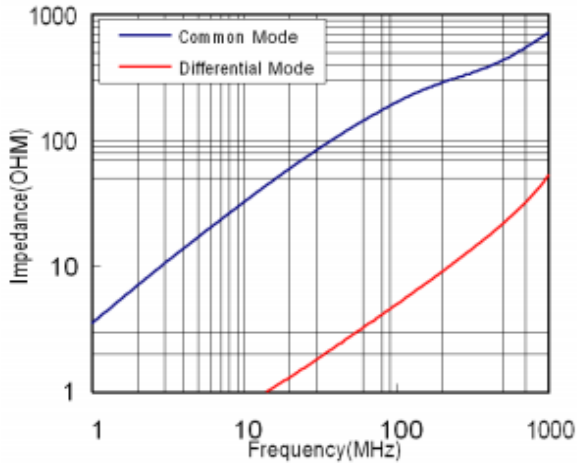
**ZCMF2012F-670-2P-T**



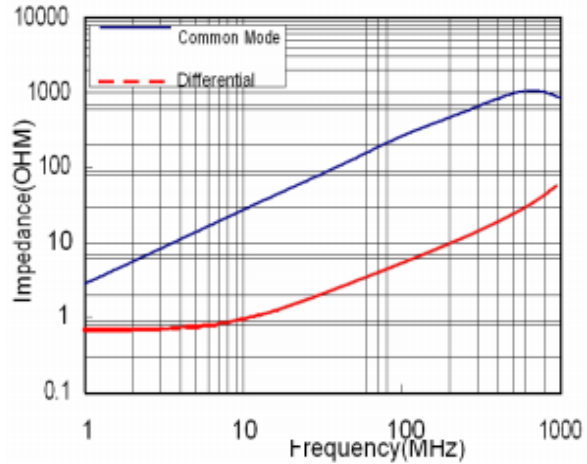
**ZCMF2012F-121-2P-T**



**ZCMF2012F-201-2P-T**



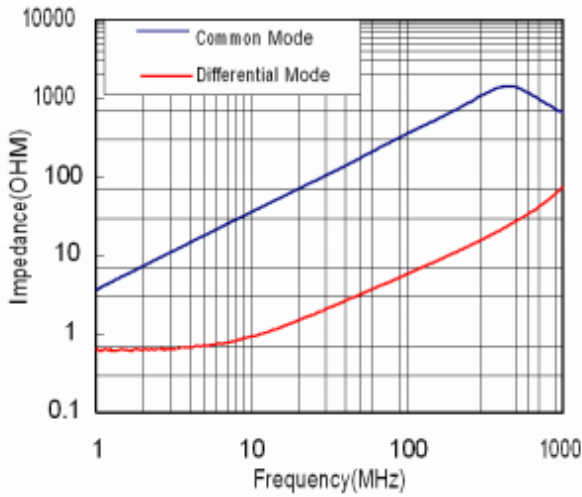
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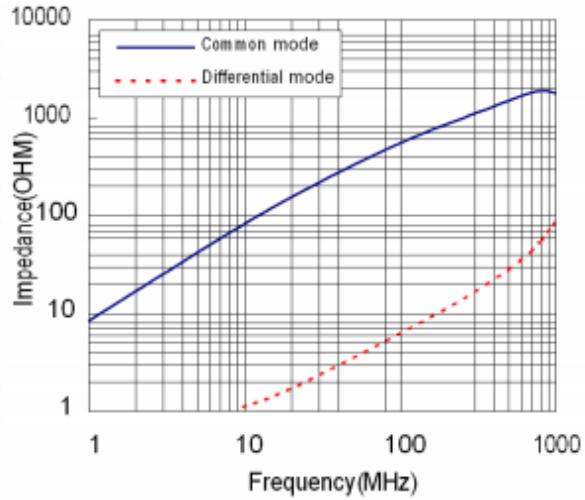
# TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## COMMON MODE & DIFFERENTIAL MODE vs. FREQUENCY

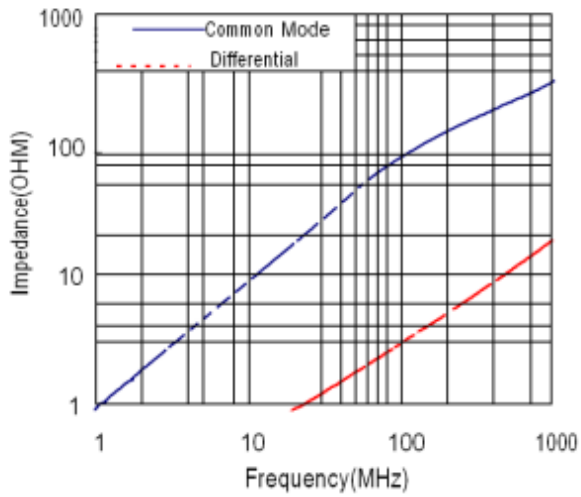
### ZCMF2012F-371-2P-T



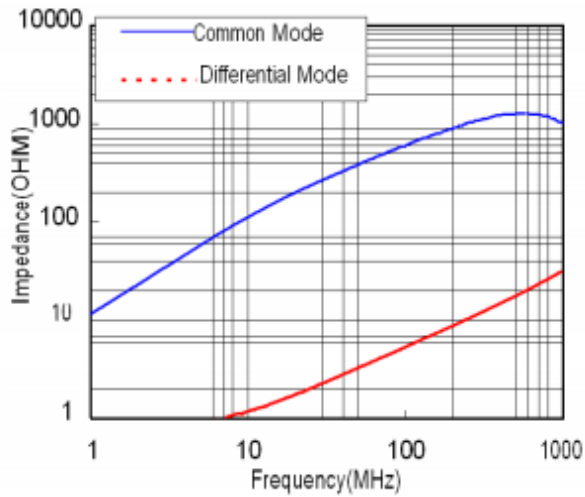
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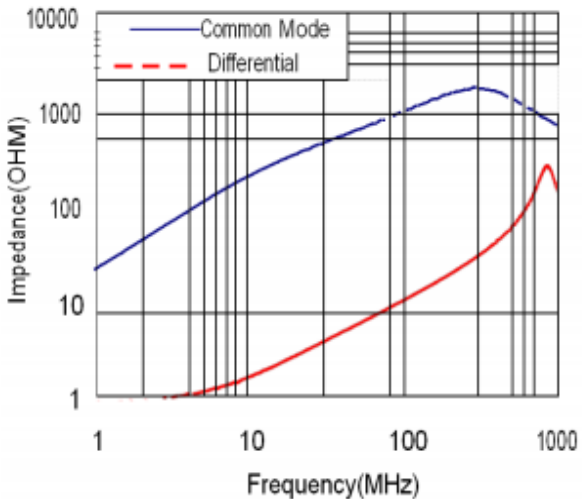
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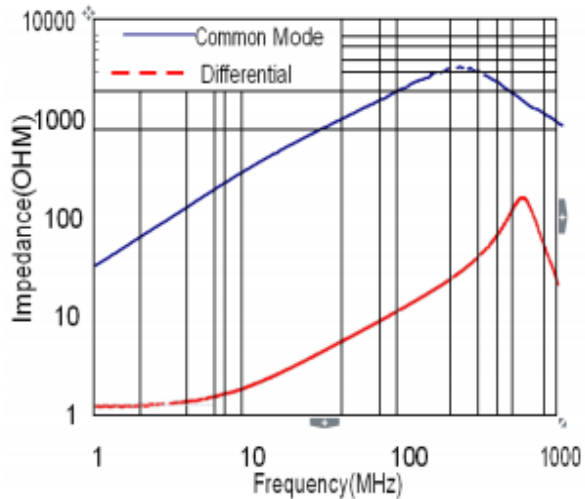
### ZCMF3216F-601-2P-T



### ZCMF3216F-102-2P-T



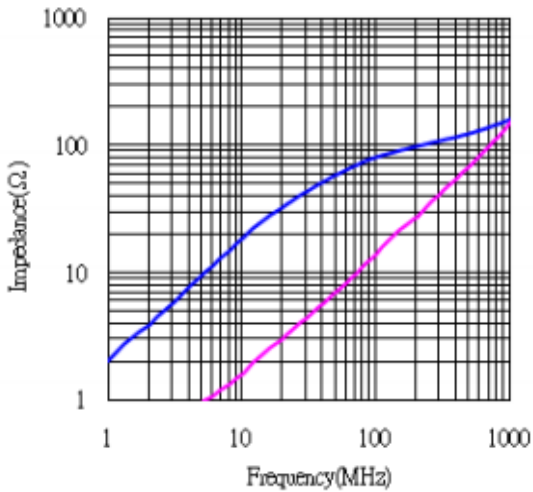
### ZCMF3216F-222-2P-T



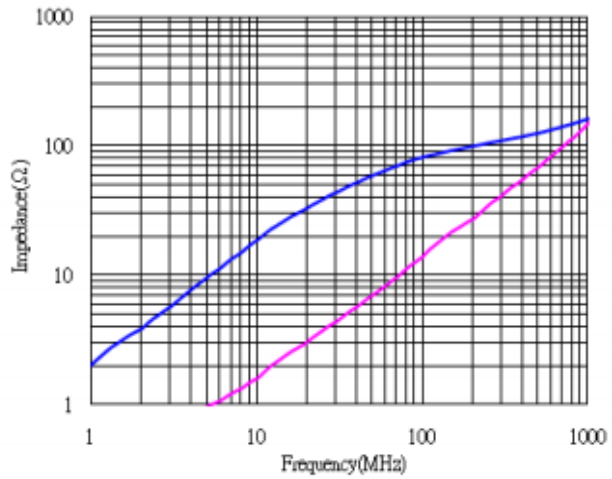
# TYPICAL ELECTRICAL CHARACTERISTICS 典型电气特性

## COMMON MODE & DIFFERENTIAL MODE vs. FREQUENCY

**ZCMF 4532F-800-2P-T**

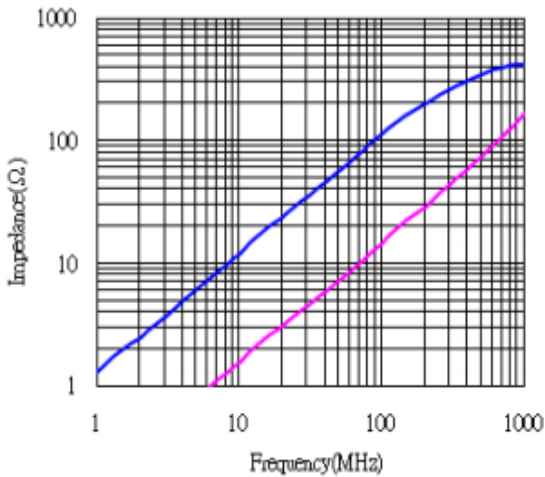


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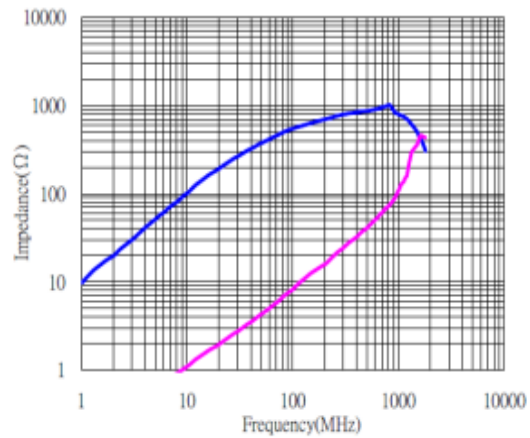
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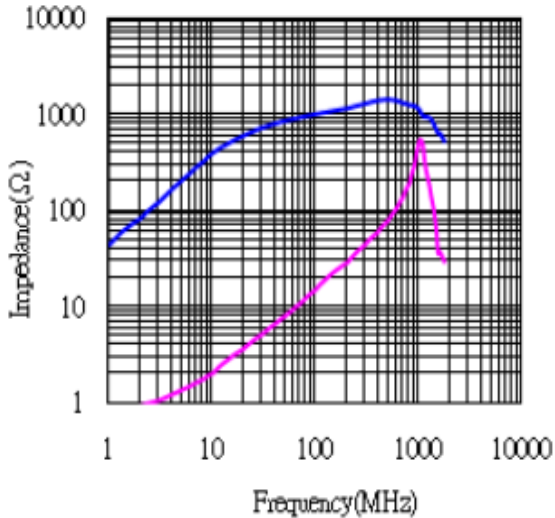


**ZCMF 4532F-900-2P-T**

**ZCMF4532F-601-29-T**



**ZCMF4532F-102-2P-T**



**ZCMF4532F-142-2P-T**

