



深圳市正威尔电子有限公司

Shenzhen ZVELL Electronics CO.,LTD

WLB 叠层片式铁氧体磁珠系列规格书

Multilayer Chip Ferrite Large Current Beads WLB Series



### 产品介绍

威尔 WLB 系列是一款使用叠层工艺生产的铁氧体贴片磁珠。

### Interduction

The WLB Series is a type of ferrite chip Magnetic beads using the multilayer technology.

## 产品特点

1. 通过 ROHS 环保要求，经 SGS 认证。
2. 叠层整体结构，具有较高的可靠性。
3. 独特的终端电极结构可以确保高允许最大电流达到 6A。

## Features

1. RoHS compliant
2. Multilayer monolithic construction yields high reliability
3. A unique terminal electrode structure ensures high permissible current, 6A max.

### 适用产品

1. 适用于视频，音频设备。
2. 适用于汽车电器设备。
3. 适用于通信设备
4. 适用于 OA 及其他办公设备

### Applications

- 1.Video equipment, audio equipment
- 2.Automotive electrical equipment
- 3.Communication equipment
- 4.OA equipment and other OA



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PRODUCT IDENTIFICATION

WLB    3216    =    601    I    20

①                      ②                      ③                      ④                      ⑤

①

Type	
WLB	Multilayer Chip Power Beads

②

External Dimensions (L×W) (mm)	
0603 [0201]	0.6×0.3
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8
2012 [0805]	2.0×1.25
3216 [1206]	3.2×1.6
3225 [1210]	3.2×2.5
4516 [1806]	4.5×1.6
4532 [1812]	4.5×3.2

③

Nominal Impedance	
Example	Nominal Value
300	30Ω
121	120Ω
102	1000Ω

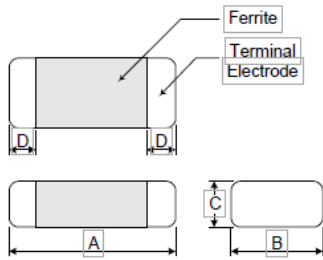
④

Packing	
T	Tape & Reel

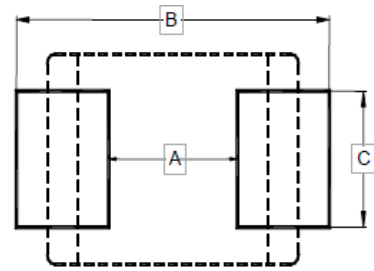
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Rated Current	
05	0.5A
10	1.0A
60	6.0A

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
0603	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
1005	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
1608	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
2012	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
3216	3.2±0.20	1.25±0.20	0.90±0.20	0.5±0.3
3225	3.2±0.20	2.50±0.20	1.3±0.20	0.5±0.3
4516	4.5±0.25	1.60±0.20	1.6±0.20	0.5±0.3
4532	4.5±0.25	3.20±0.20	1.5±0.20	0.5±0.3
3216	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3

Dimensions in mm

TYPE	A	B	C
0603	0.2 ~ 0.3	0.75 ~ 1.05	0.3
1005	0.4	1.2 ~ 1.4	0.5
1608	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
2012	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
3216	2.0	4.2 ~ 5.2	1.2
3225	2.0	5.5 ~ 6.5	1.8
4516	3.0	5.5 ~ 6.5	1.2
4532	3.0	5.5 ~ 6.5	2.4
3216	2.0	4.2 ~ 5.2	1.2



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### Multilayer Chip Ferrite Large Current Beads WLB Series

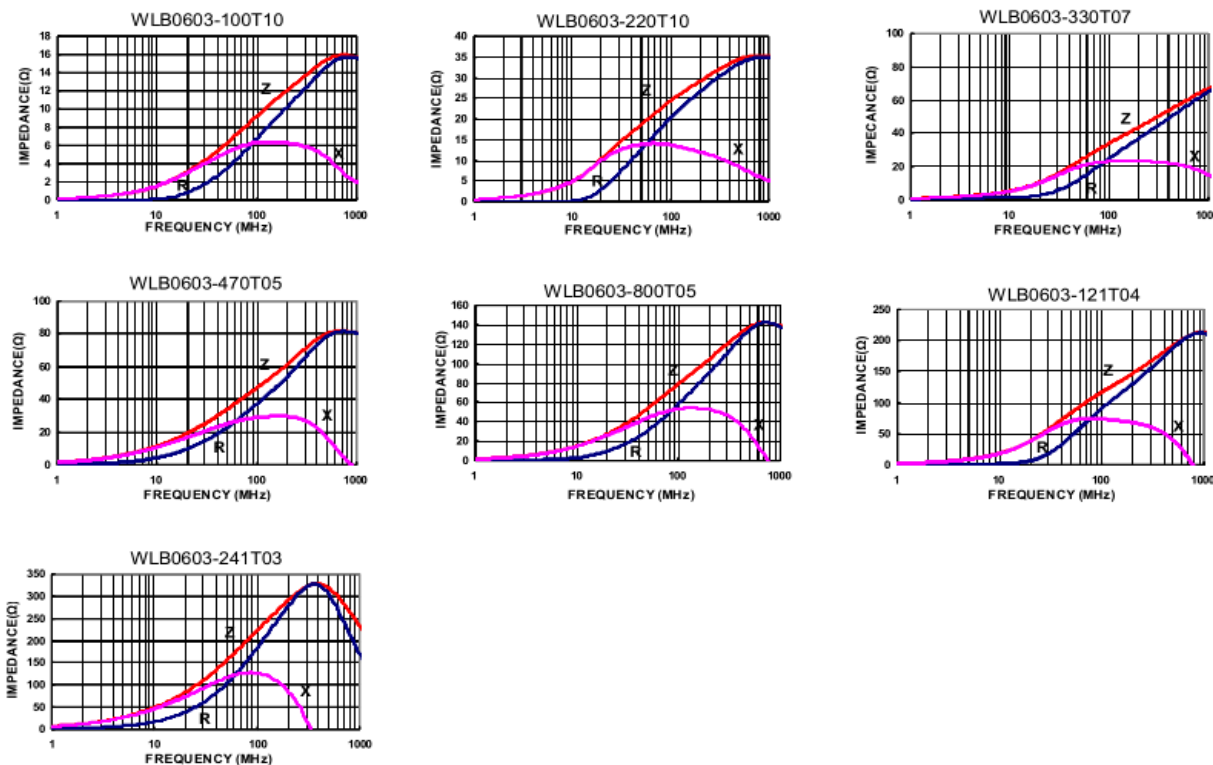
#### Electrical Characteristics

Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB0603-100T10	100	10 $\pm$ 30%	0.050	1000
WLB0603-220T10	100	22	0.065	1000
WLB0603-330T07	100	33	0.090	750
WLB0603-470T05	100	47	0.120	500
WLB0603-800T05	100	80	0.180	500
WLB0603-121T04	100	120	0.230	450
WLB0603-241T03	100	240	0.400	350

#### Note:

1. Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
3. Measure Equipment:  
 Z: HP4291A  
 RDC: HP4338B or CHEN HWA 502

Test Instruments: Agilent E4991A Impedance / Material Analyzer





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Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB1005-100T20	100	10 $\pm$ 30%	0.03	2000
WLB1005-300T17	100	30	0.05	1700
WLB1005-600T15	100	60	0.075	1500
WLB1005-800T12	100	80	0.09	1200
WLB1005-121T12	100	120	0.09	1200
WLB1005-151T12	100	150	0.14	1200
WLB1005-221T11	100	220	0.18	1100
WLB1005-601T05	100	600	0.34	500
WLB1005-102T03	100	1000	0.49	300

### Note:

1. Operating temperature range—55°C~125°C(Including self - temperature rise)

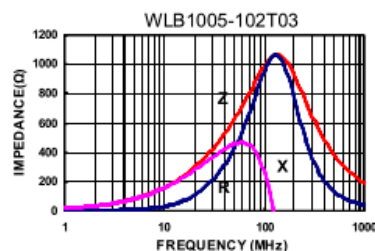
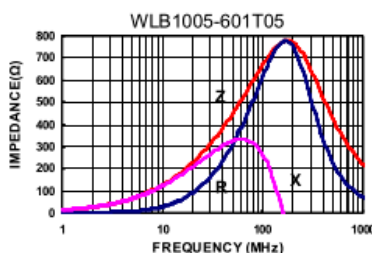
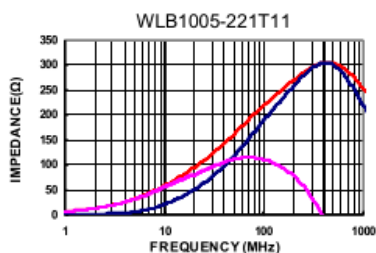
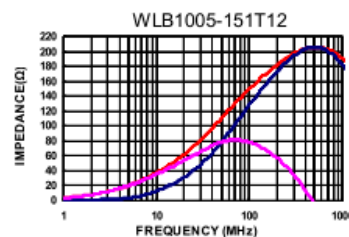
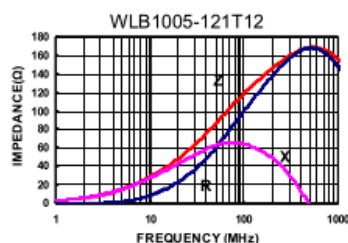
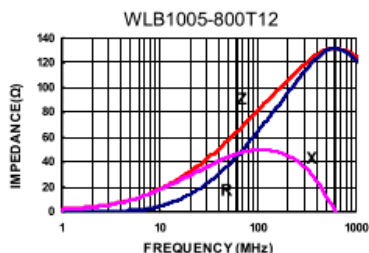
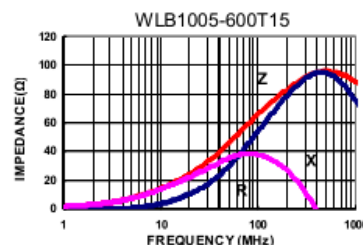
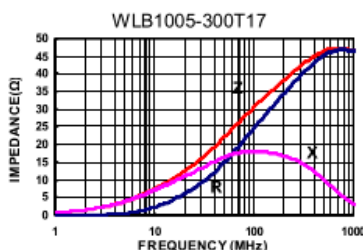
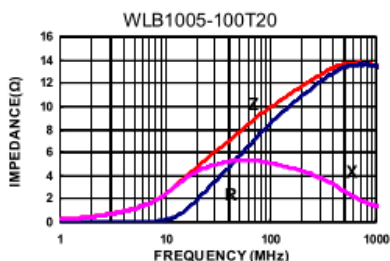
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than 30°C

3. Measure Equipment:

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RDC: HP4338B or CHEN HWA 502

Test Instruments: Agilent E4991A Impedance / Material Analyzer





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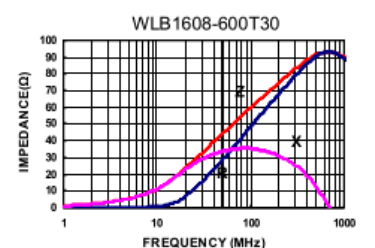
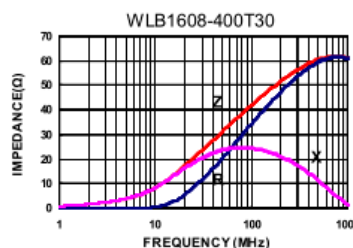
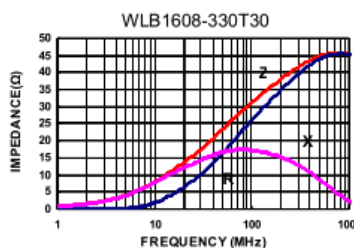
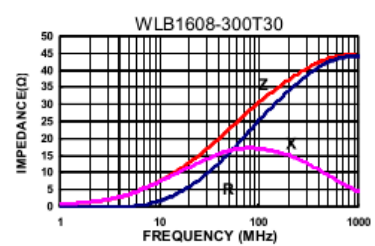
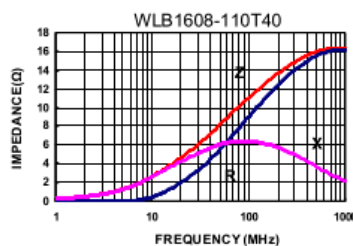
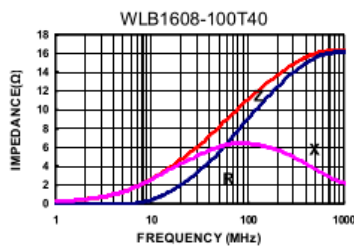
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WLB1608-100T20	100	10	0.020	4000
WLB1608-110T40	100	11	0.020	4000
WLB1608-300T30	100	30	0.040	3000
WLB1608-330T30	100	33	0.040	3000
WLB1608-400T30	100	40	0.040	3000
WLB1608-600T30	100	60	0.040	3000
WLB1608-800T25	100	80	0.060	2500
WLB1608-101T25	100	100	0.060	2500
WLB1608-121T20	100	120	0.100	2000
WLB1608-151T20	100	150	0.100	2000
WLB1608-181T20	100	180	0.100	2000
WLB1608-221T20	100	220	0.100	2000
WLB1608-301T15	100	300	0.120	1500
WLB1608-331T15	100	330	0.120	1500
WLB1608-471T10	100	470	0.150	1500
WLB1608-601T10	100	600	0.200	1000
WLB1608-102T08	100	1000	0.250	800

**Note:**

1. Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
3. Measure Equipment:
  - Z: HP4291A
  - RDC: HP4338B or CHEN HWA 502
  - Test Instruments: Agilent E4991A Impedance / Material Analyzer



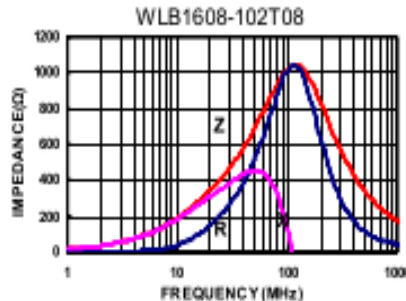
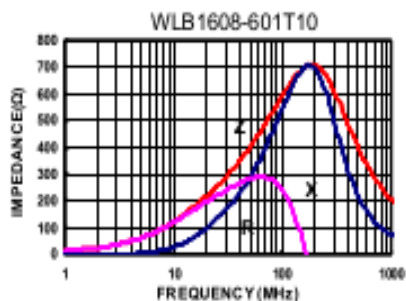
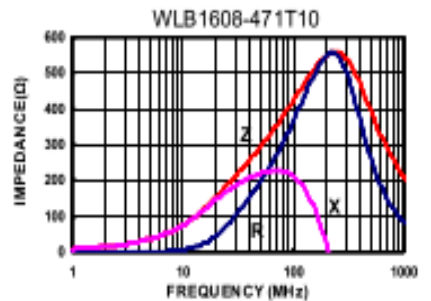
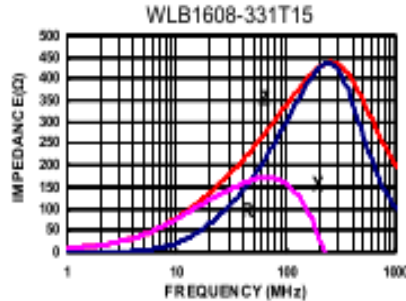
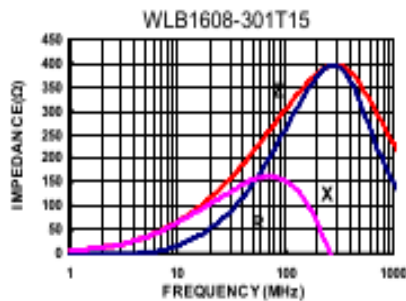
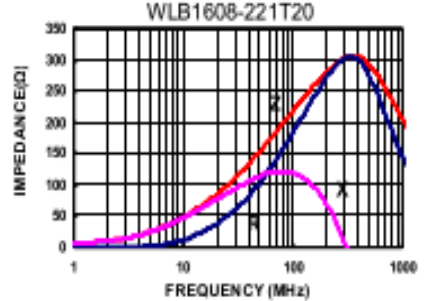
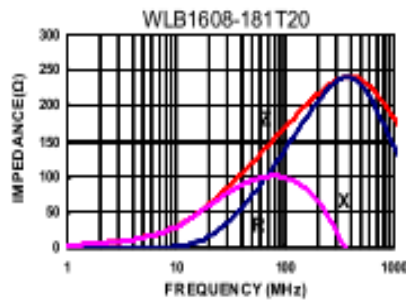
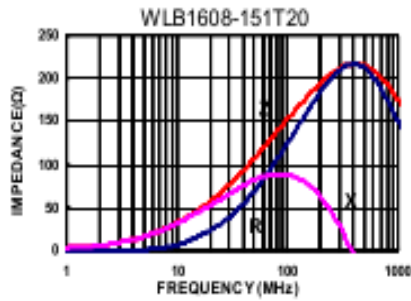
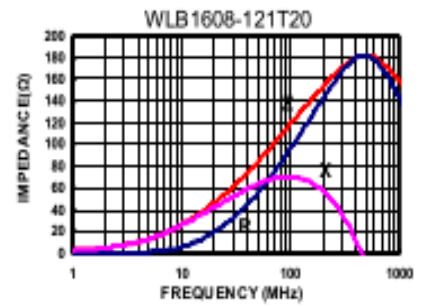
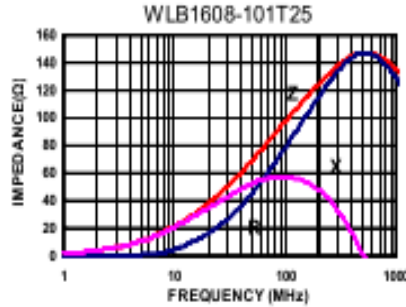
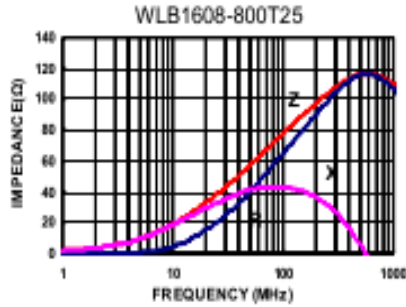


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Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB2012-100T60	100	10 $\pm$ 30%	0.01	6000
WLB2012-170T50	100	17	0.02	5000
WLB2012-300T40	100	30	0.015	4000
WLB2012-600T30	100	60	0.04	3000
WLB2012-800T30	100	80	0.04	3000
WLB2012-121T30	100	120	0.04	3000
WLB2012-221T20	100	220	0.10	2000
WLB2012-301T20	100	300	0.10	2000
WLB2012-471T20	100	470	0.10	2000
WLB2012-601T20	100	600	0.10	2000
WLB2012-751T15	100	750	0.12	1500
WLB2012-102T15	100	1000	0.12	1500

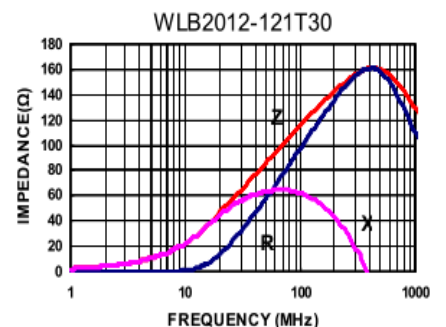
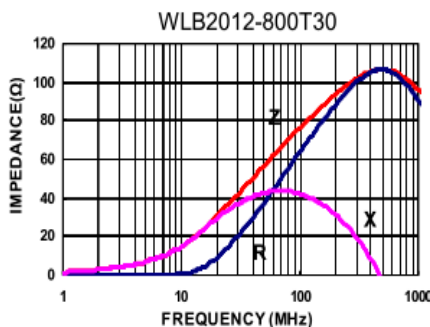
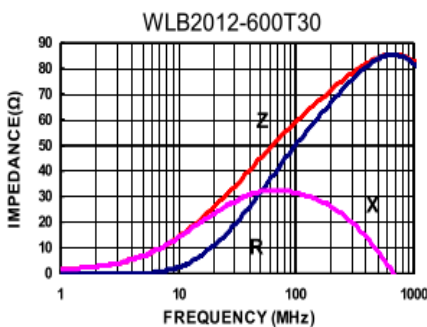
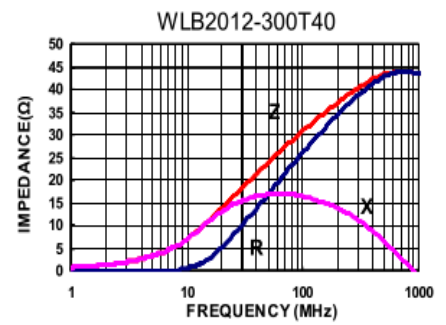
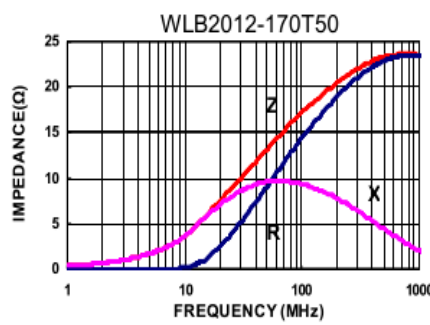
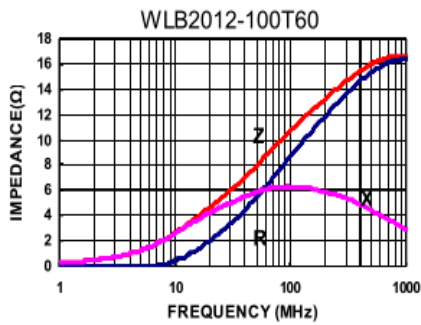
### Note:

1. Operating temperature range — 55°C ~ 125°C (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than 30°C
3. Measure Equipment:

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RDC: HP4338B or CHEN HWA 502

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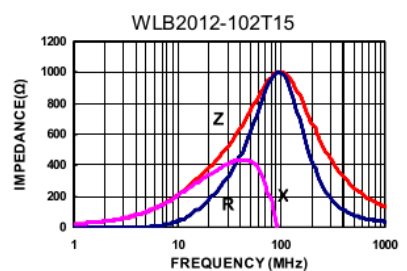
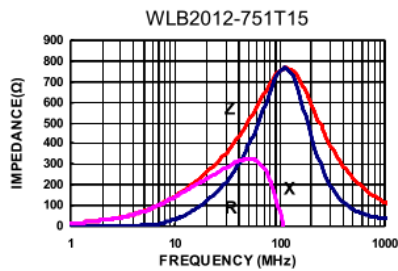
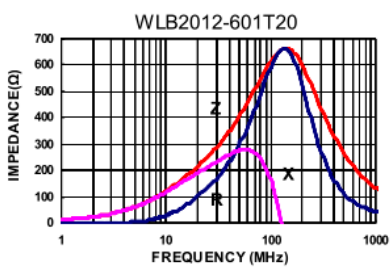
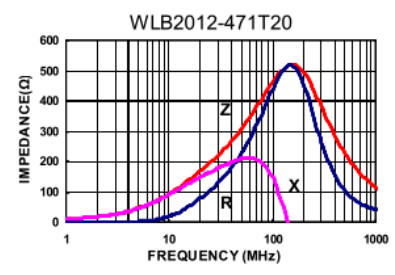
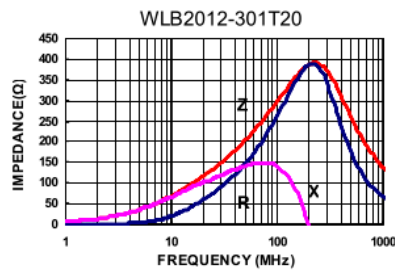
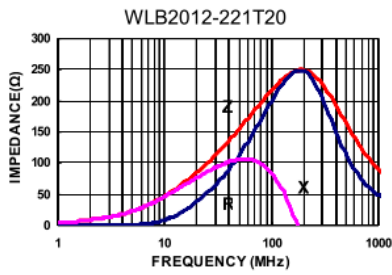
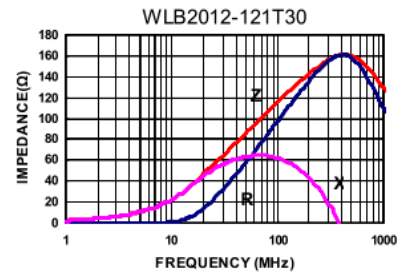
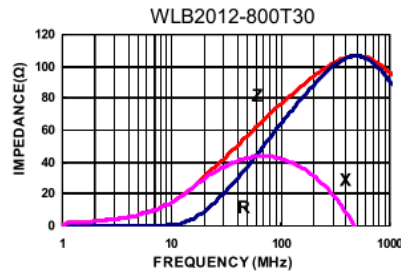
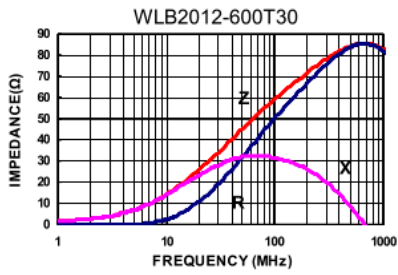
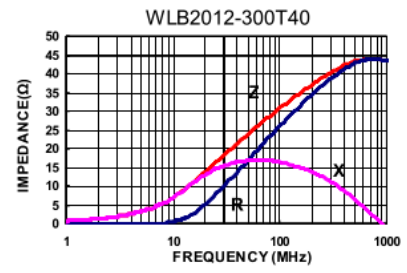
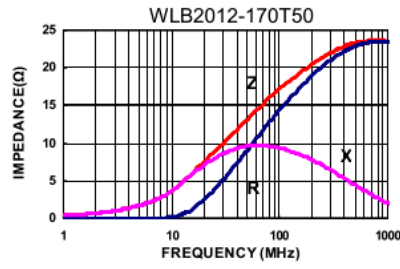
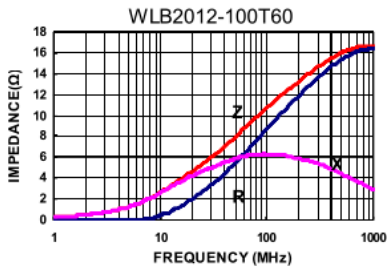


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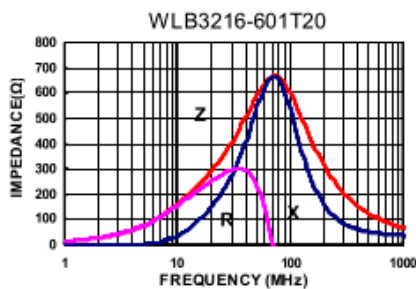
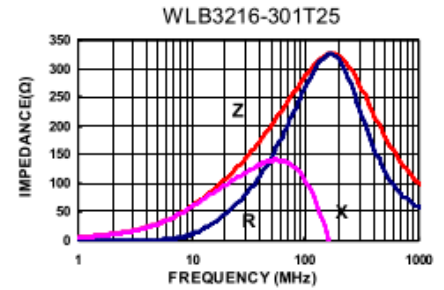
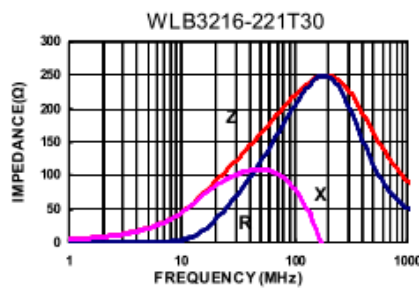
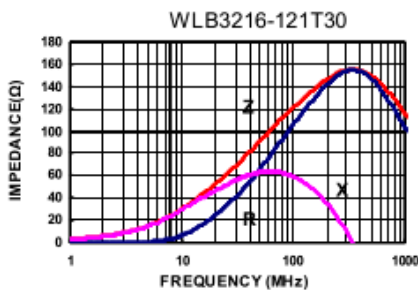
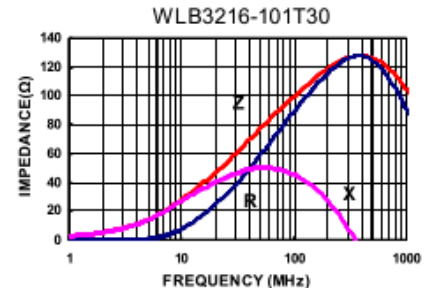
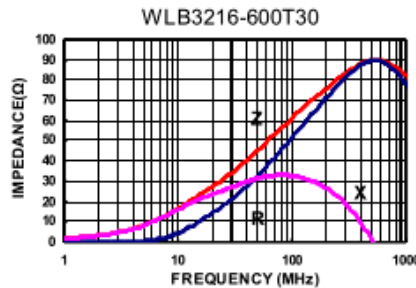
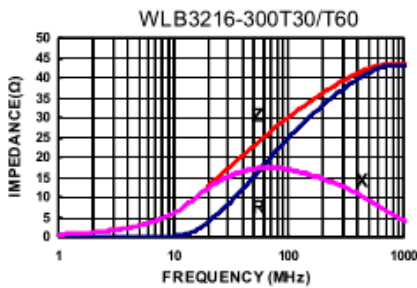
### WLB 叠层片式铁氧体磁珠系列规格书

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Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB3216-300T30	100	30	0.040	3000
WLB3216-600T30	100	60	0.040	3000
WLB3216-101T30	100	100	0.040	3000
WLB3216-121T30	100	120	0.040	3000
WLB3216-221T30	100	220	0.050	3000
WLB3216-301T25	100	300	0.060	2500
WLB3216-601T20	100	600	0.250	2000

Note:

1. Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
3. Measure Equipment:
  - Z: HP4291A
  - RDC: HP4338B or CHEN HWA 502
  - Test Instruments: Agilent E4991A Impedance / Material Analyzer





# 深圳市正威尔电子有限公司

Shenzhen ZVELL Electronics CO.,LTD

## WLB 叠层片式铁氧体磁珠系列规格书

Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB3216-100T60	100	10+30%	0.015	6000
WLB3216-190T60	100	19	0.015	6000
WLB3216-300T30	100	30	0.040	3000
WLB3216-600T30	100	60	0.040	3000
WLB3216-101T30	100	100	0.040	3000
WLB3216-121T30	100	120	0.040	3000
WLB3216-221T20	100	220	0.100	2000
WLB3216-301T20	100	300	0.100	2000
WLB3216-601T20	100	600	0.100	2000

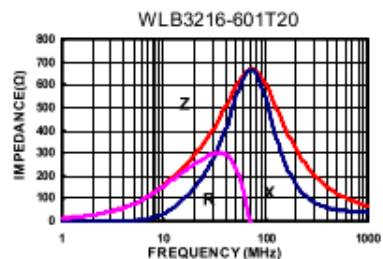
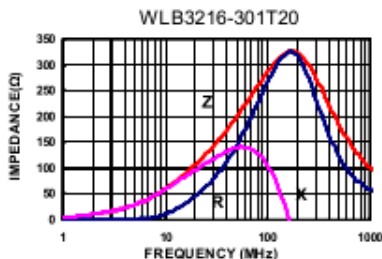
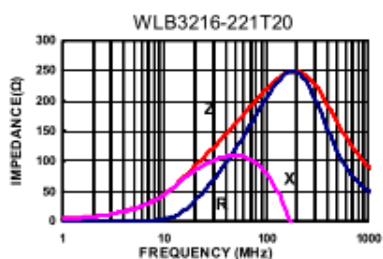
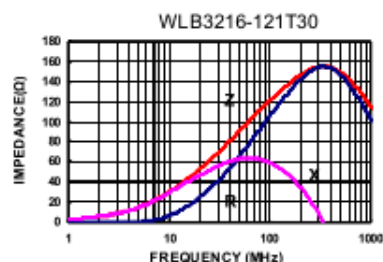
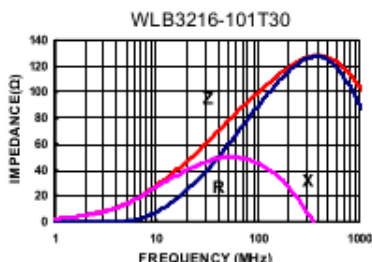
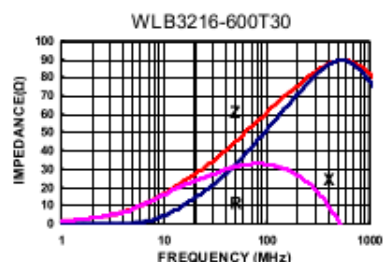
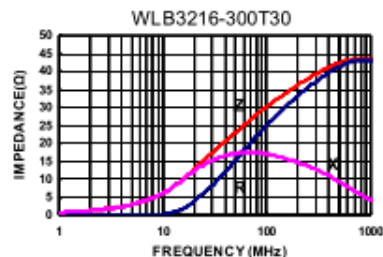
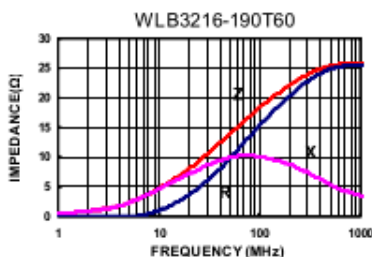
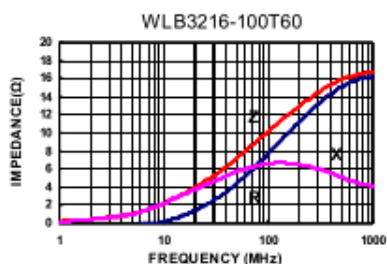
### Note:

- ☑ Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
- ☑ Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
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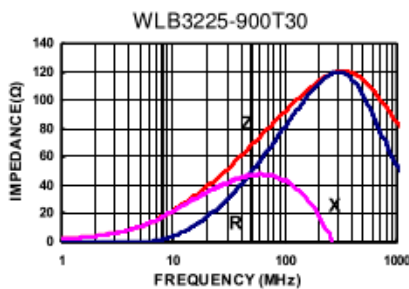
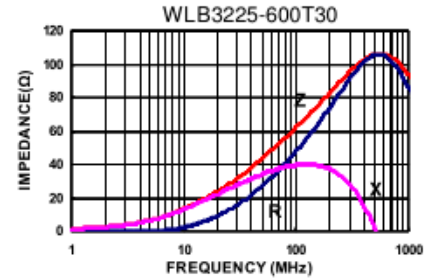
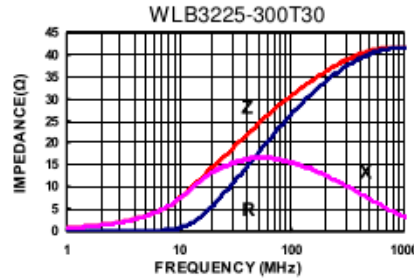
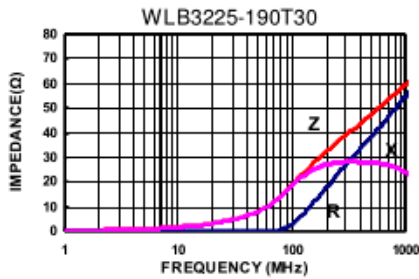
## Multilayer Chip Ferrite Large Current Beads WLB Series

Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB3225-190T30	100	19	0.040	3000
WLB3225-300T30	100	30	0.040	3000
WLB3225-600T30	100	60	0.040	3000
WLB3225-900T30	100	90	0.040	3000
WLB3225-121T30	100	120	0.040	3000
WLB3225-601T20	100	600	0.020	2000

### Note:

1. Operating temperature range —  $55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
3. Measure Equipment:
  - Z: HP4291A
  - RDC: HP4338B or CHEN HWA 502

Test Instruments: Agilent E4991A Impedance / Material Analyzer





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## WLB 叠层片式铁氧体磁珠系列规格书

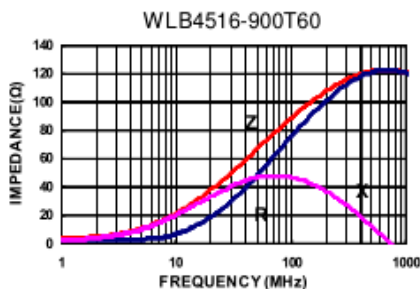
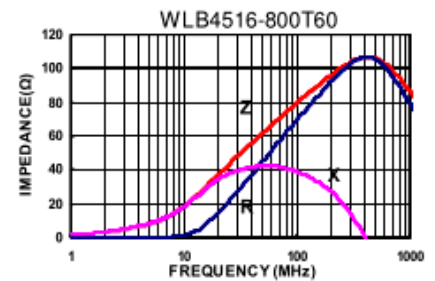
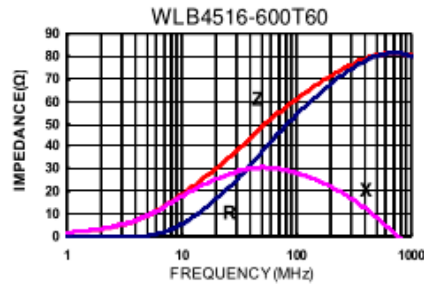
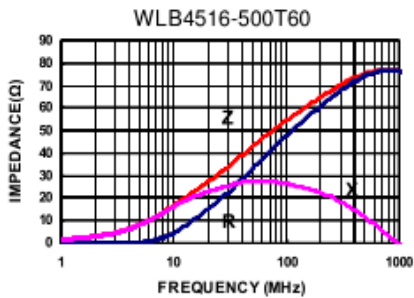
## Multilayer Chip Ferrite Large Current Beads WLB Series

Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB4516-500T60	100	50	0.010	6000
WLB4516-600T60	100	60	0.010	6000
WLB4516-800T60	100	80	0.010	6000
WLB4516-900T60	100	90	0.010	6000
WLB4516-471T20	100	470	0.100	2000
WLB4516-102T20	100	1000	0.100	2000

### Note:

1. Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
3. Measure Equipment:  
Z: HP4291A  
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WLB 叠层片式铁氧体磁珠系列规格书

Multilayer Chip Ferrite Large Current Beads WLB Series

Part Number	Test Frequency (MHz)	Impedance ( $\Omega \pm 25\%$ )	DC Resistance ( $\Omega$ ) Max	Rated current (mA) Max
WLB4532-800T60	100	80	0.010	6000
WLB4532-121T60	100	120	0.010	6000

**Note:**

1. Operating temperature range  $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$  (Including self - temperature rise)
2. Rate Current: Applied the current to coils, the temperature rise shall not be more than  $30^{\circ}\text{C}$
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