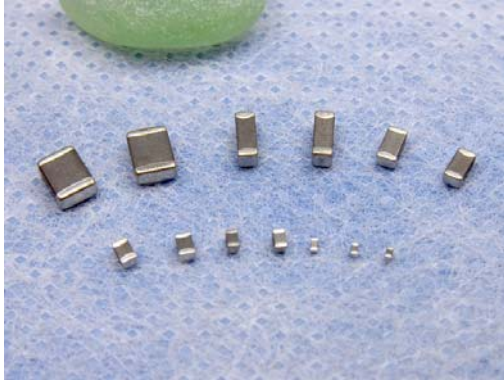


MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

PRODUCT IDENTIFICATION

FERRITE CHIP BEAD GCBN, HCBN, LCBN 1005/1608/2012/3216/3225/4516/4532 SERIES



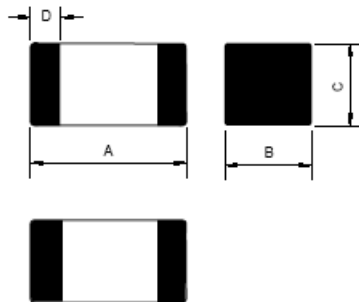
GCBN 1005 K - 300 T 03

- A B C D E F**
A : GCBN FOR GENERAL APPLICATION
 HCBN FOR HIGH SPEED APPLICATION
 LCBN FOR POWER SUPPLY LINE APPLICATION
B : Dimension (L*W) 4.5mm*3.2mm
C : Material (Lead Free)
D : Impedance (601 = 601 Ω)
E : Packaging(T = Taping and Reel)
F : Rated Current(30 = 3000mA)

APPLICATIONS

Personal computers, communication equipment, digital telephone, electronic games machines, CRTs, hard disk drives, cellular phones, PDAs, printers and other computer peripheral products. Suitable for I/O ports, DC power lines and signal lines, and general circuits with unstable ground.

SHAPES & DIMENSIONS



Size	A(mm)	B(mm)	C(mm)	D(mm)
1005	1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.1
1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
2012	2.0±0.20	1.25±0.2	0.85±0.20	0.5±0.3
3216	3.2±0.20	1.6±0.20	1.1±0.20	0.5±0.3
3225	3.2±0.20	2.5±0.20	1.3±0.20	0.5±0.3
4516	4.5±0.20	1.6±0.20	1.6±0.20	0.5±0.3
4532	4.5±0.20	3.2±0.20	1.5±0.20	0.5±0.3

MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

ELECTRICAL CHARACTERISTICS

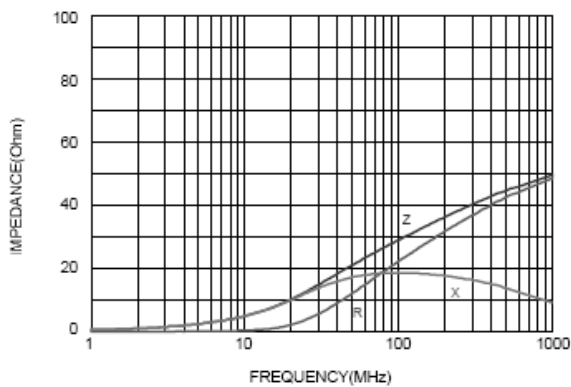
GCBN1005 SERIES

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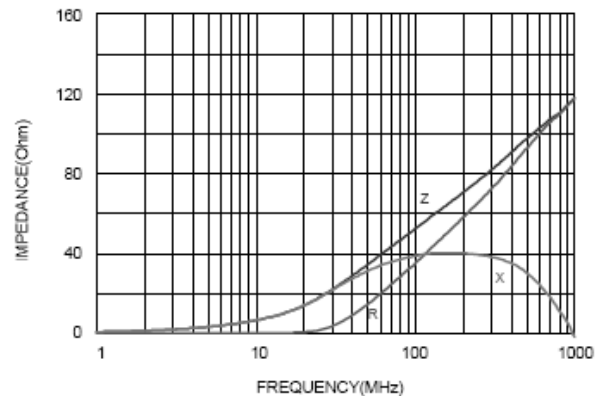
Part No.	$z(\Omega)$ $\pm 25\%$	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN1005K-300	30	100	300	0.20
GCBN1005K-600	60	100	300	0.25
GCBN1005K-121	120	100	100	0.30
GCBN1005K-151	150	100	100	0.30
GCBN1005K-221	220	100	100	0.40
GCBN1005K-301	300	100	100	0.50
GCBN1005K-471	470	100	100	0.65
GCBN1005K-601	600	100	80	0.80
GCBN1005M-600	60	100	100	0.30
GCBN1005M-121	120	100	80	0.45
GCBN1005M-221	220	100	50	0.60
GCBN1005M-301	300	100	50	0.75

▪ Typical Impedance v.s. Frequency Curve

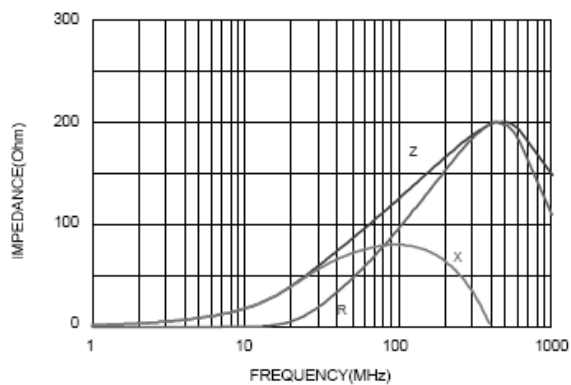
GCBN1005K-300



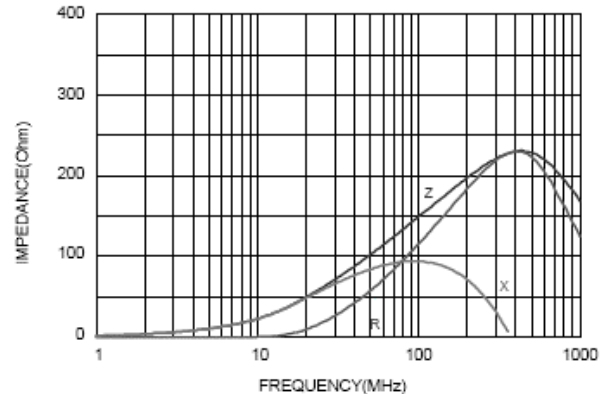
GCBN1005K-600



GCBN1005K-121



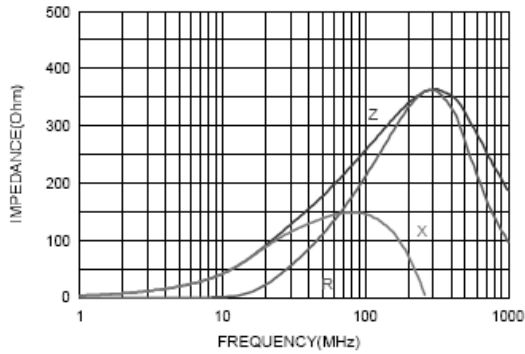
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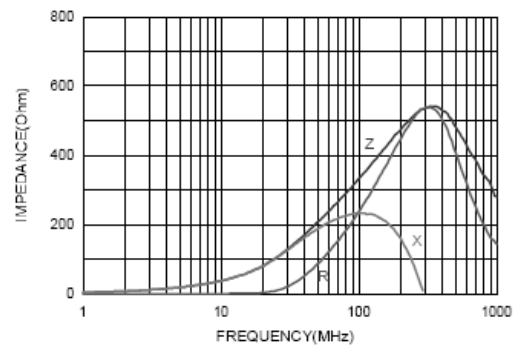
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

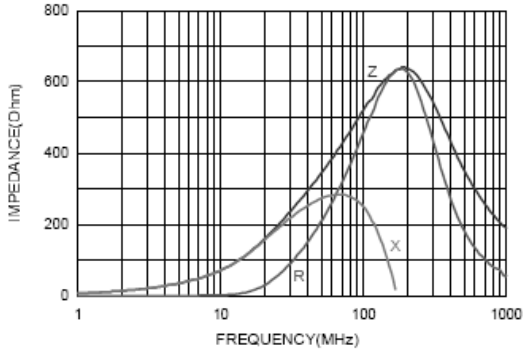
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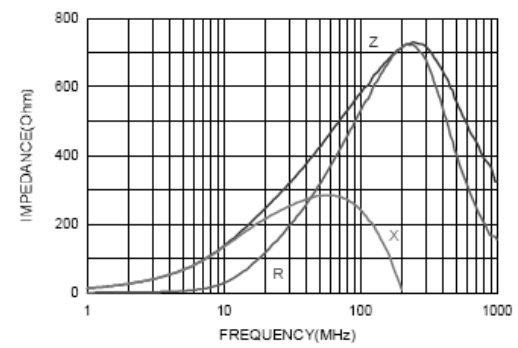
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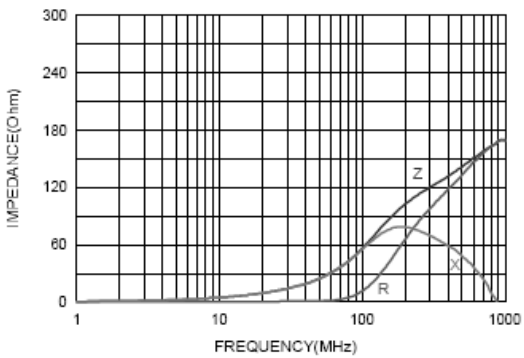
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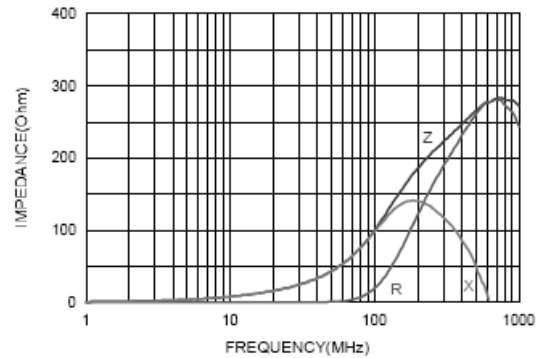
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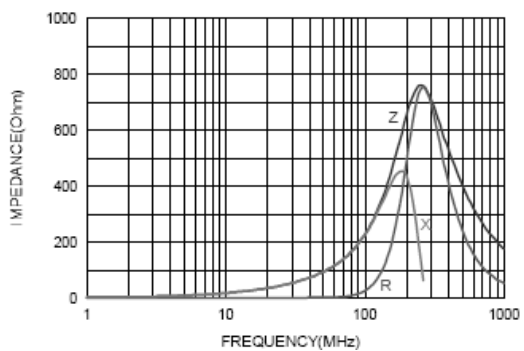
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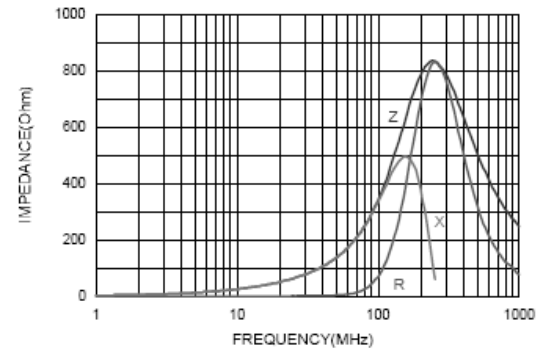
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GCBN1005M-221



GCBN1005M-301



MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

ELECTRICAL CHARACTERISTICS

GCBN/HCBN/LCBN 1608 SERIES

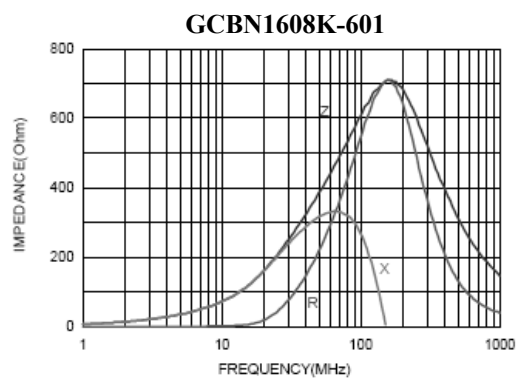
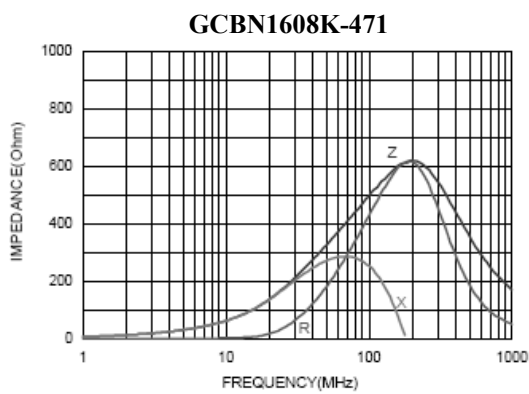
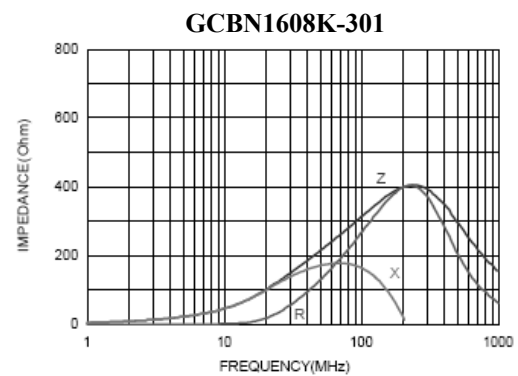
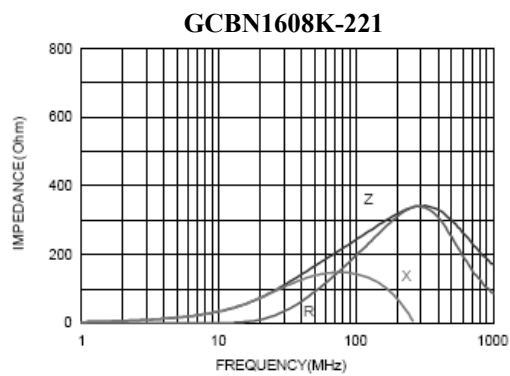
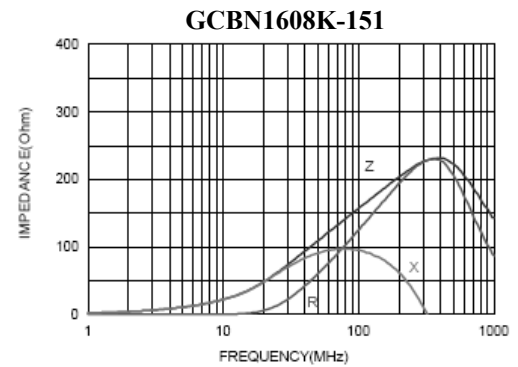
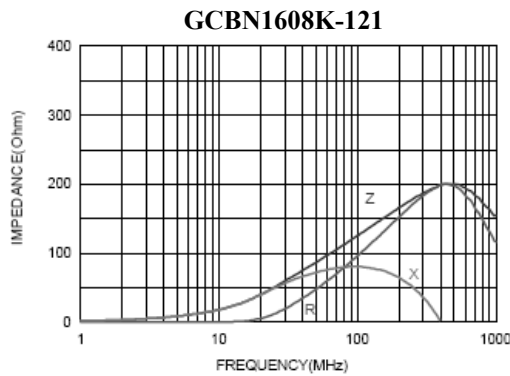
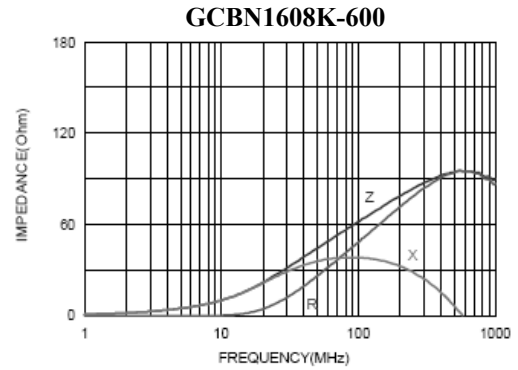
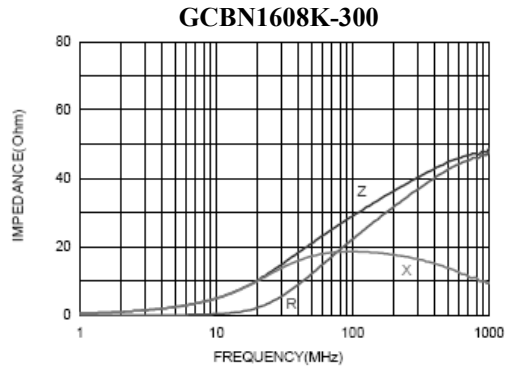
[↑ Back](#)

Part No.	$z(\Omega)$ $\pm 25\%$	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN1608K-300	30	100	700	0.20
GCBN1608K-600	60	100	700	0.20
GCBN1608K-121	120	100	600	0.25
GCBN1608K-151	150	100	600	0.25
GCBN1608K-221	220	100	550	0.30
GCBN1608K-301	300	100	500	0.35
GCBN1608K-471	470	100	350	0.45
GCBN1608K-601	600	100	350	0.50
GCBN1608K-102	1000	100	200	0.70
GCBN1608H-152	1500	100	200	1.00
GCBN1608H-202	2000	100	150	1.20
HCBN1608C-100	10	100	700	0.20
HCBN1608C-300	30	100	600	0.25
HCBN1608C-600	60	100	600	0.30
HCBN1608C-121	120	100	300	0.40
HCBN1608C-151	150	100	300	0.40
HCBN1608C-221	220	100	250	0.60
HCBN1608C-301	300	100	200	0.80
HCBN1608C-471	470	100	200	0.85
HCBN1608C-601	600	100	150	1.20
HCBN1608C-102	1000	100	80	1.50
LCBN1608K-300T30	30	100	3000	0.04
LCBN1608K-800T30	80	100	3000	0.04
LCBN1608K-121T20	120	100	2000	0.10
LCBN1608K-151T20	150	100	2000	0.10
LCBN1608K-221T20	220	100	2000	0.10
LCBN1608K-301T10	300	100	1000	0.20
LCBN1608K-471T10	470	100	1000	0.20
LCBN1608K-601T10	600	100	1000	0.20

MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

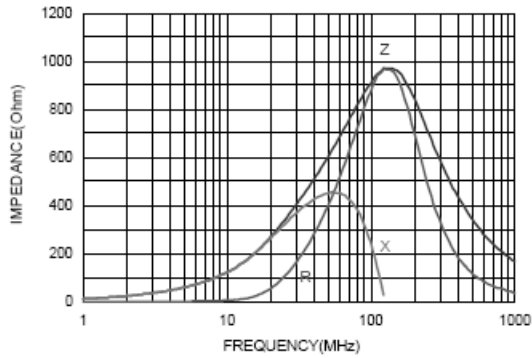
Typical Impedance v.s. Frequency Curve



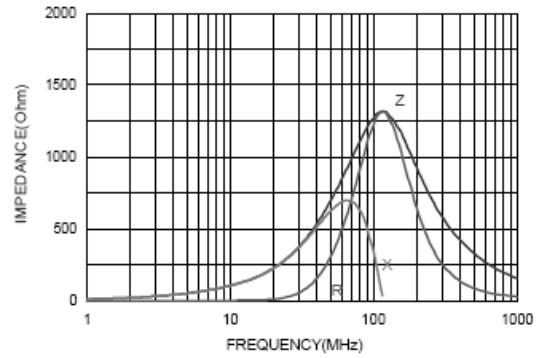
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

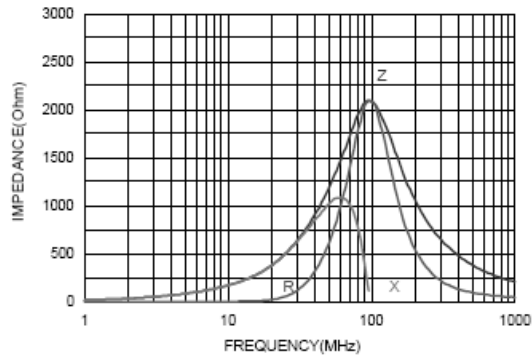
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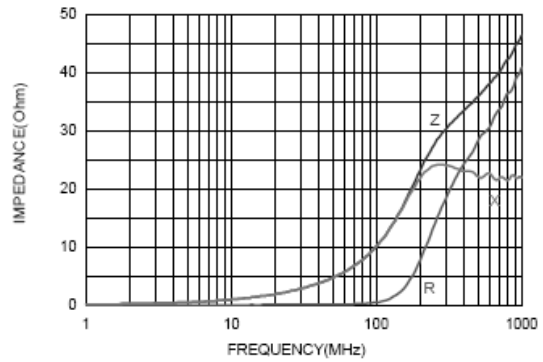
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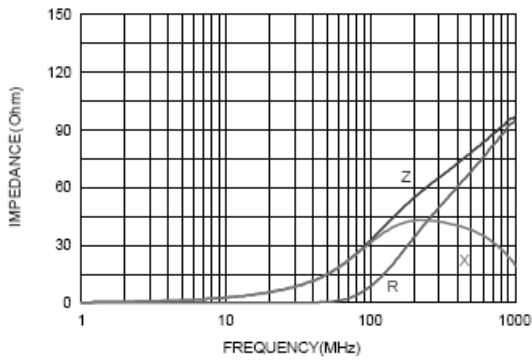
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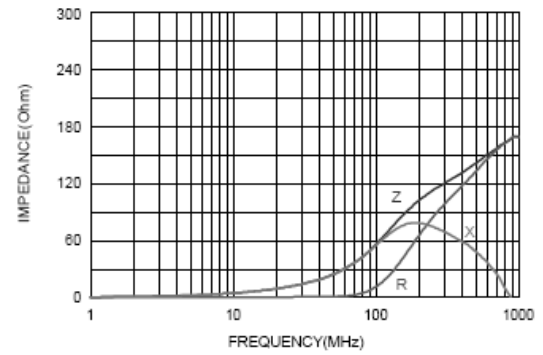
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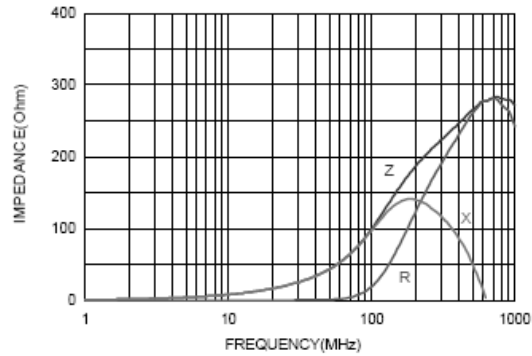
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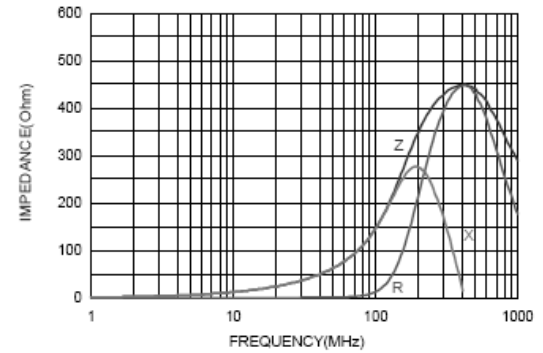
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HCBN1608C-121



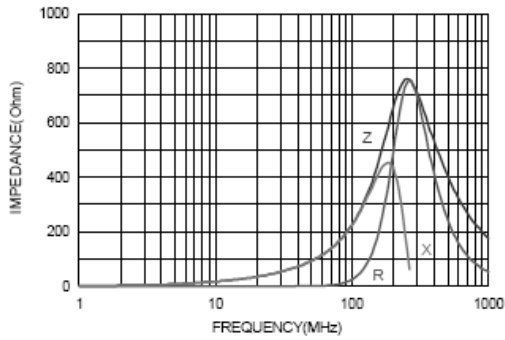
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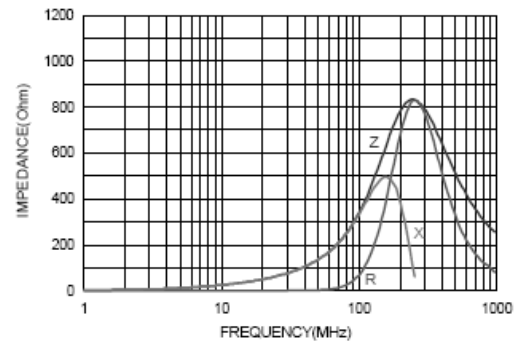
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

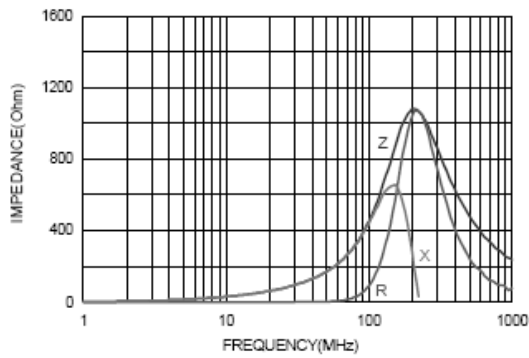
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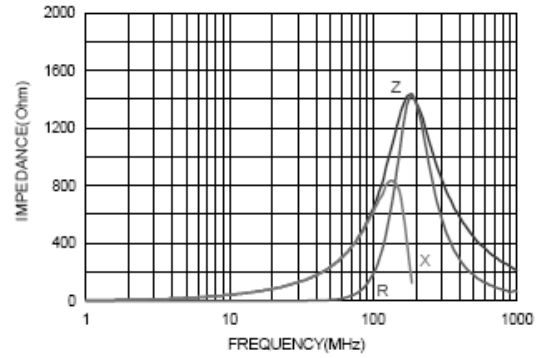
HCBN1608C-301



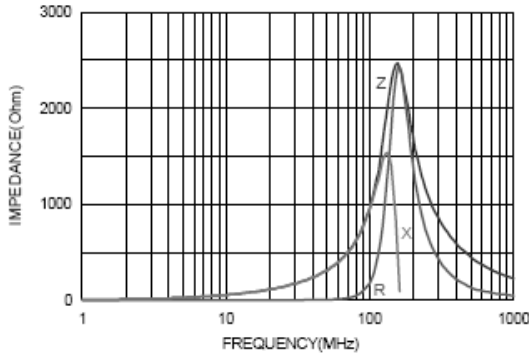
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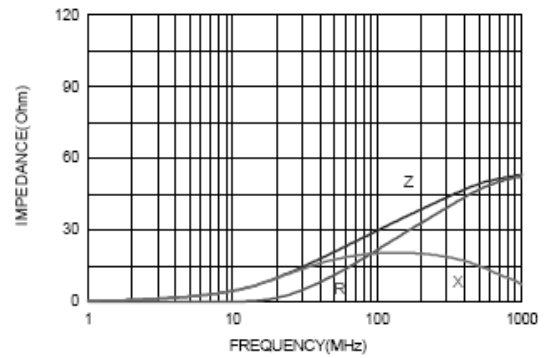
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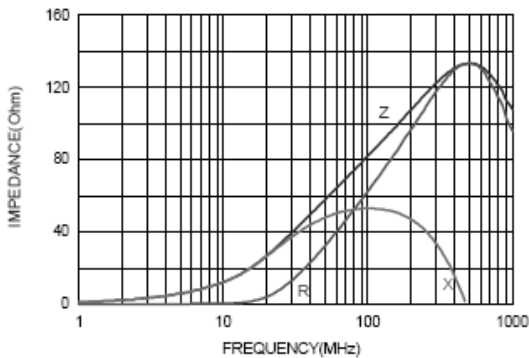
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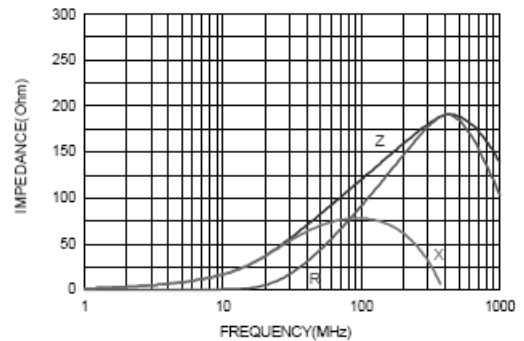
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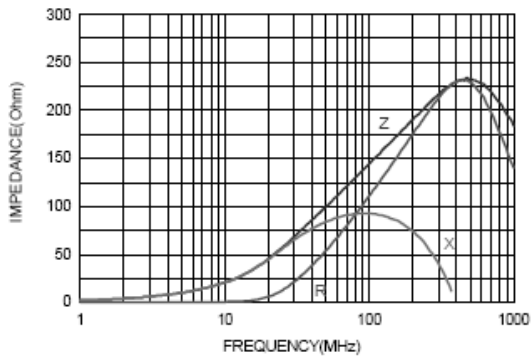
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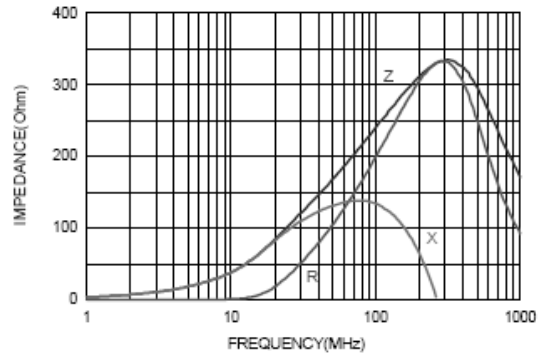
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

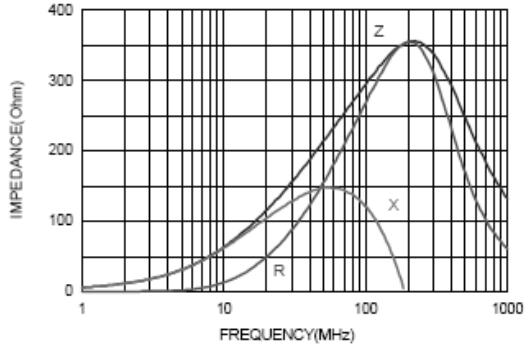
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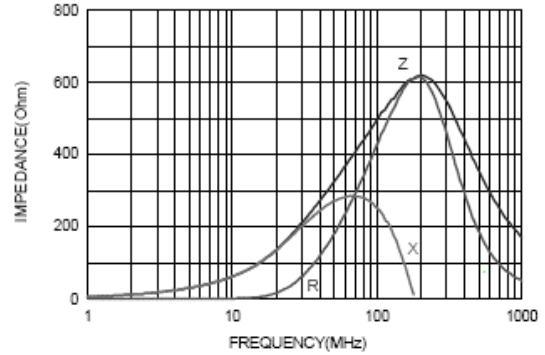
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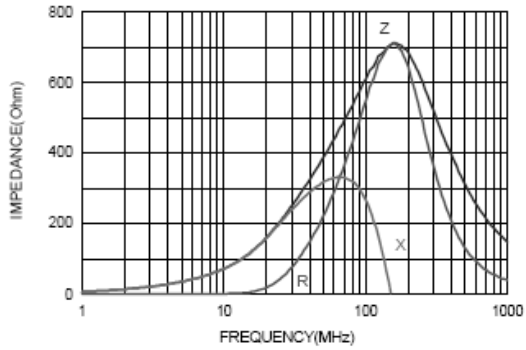
LCBN1608K-301T10



LCBN1608K-471T10



LCBN1608K-601T10



MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

ELECTRICAL CHARACTERISTICS

GCBN/HCBN/LCBN 2012 SERIES

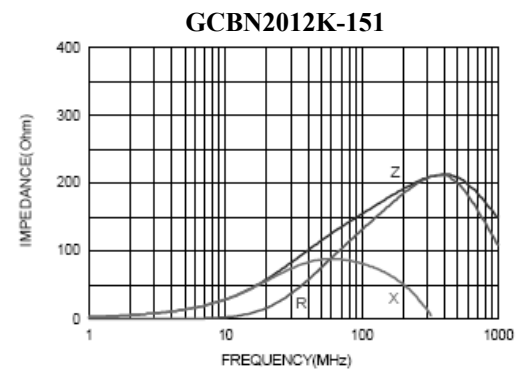
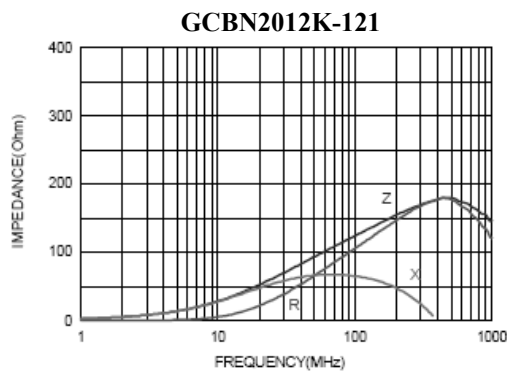
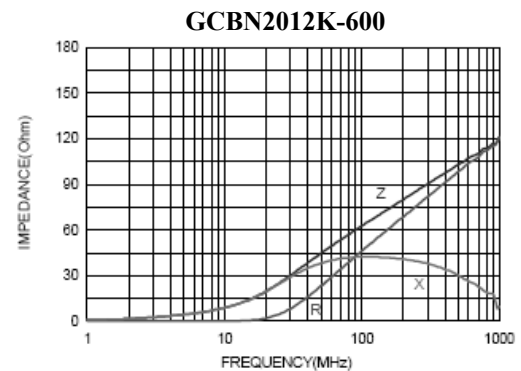
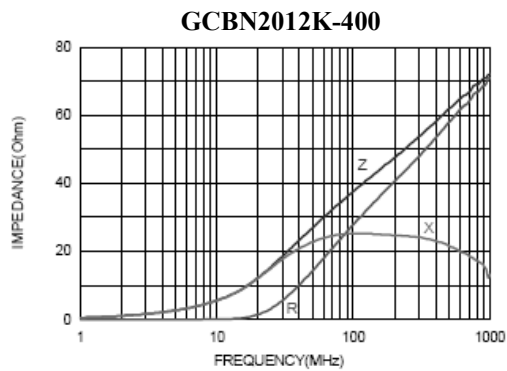
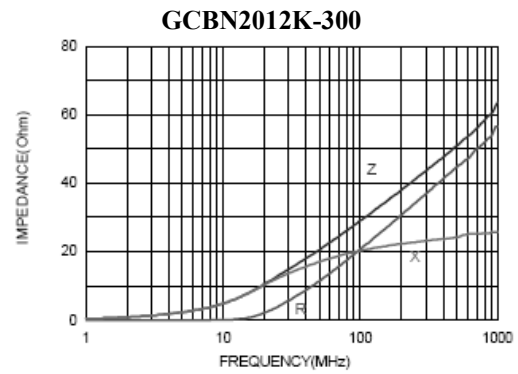
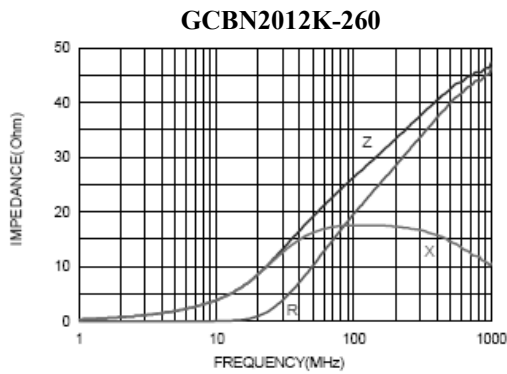
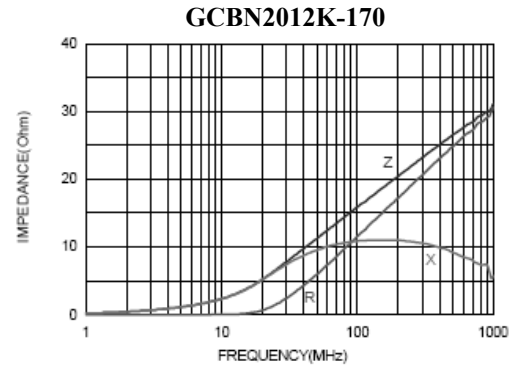
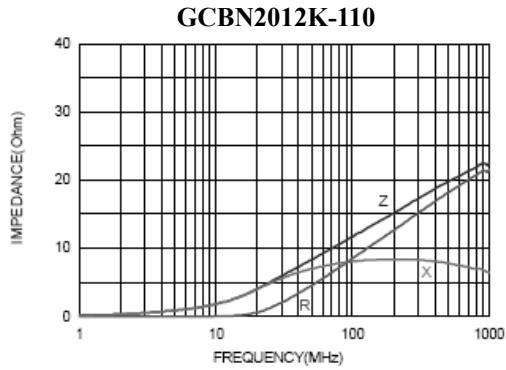
[↑ Back](#)

Part No.	$z(\Omega)$ $\pm 25\%$	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN2012K-110	11	100	900	0.10
GCBN2012K-170	17	100	600	0.10
GCBN2012K-260	26	100	600	0.10
GCBN2012K-300	30	100	600	0.10
GCBN2012K-400	40	100	600	0.10
GCBN2012K-600	60	100	900	0.10
GCBN2012K-121	120	100	800	0.20
GCBN2012K-151	150	100	800	0.20
GCBN2012K-221	220	100	750	0.30
GCBN2012K-301	300	100	700	0.30
GCBN2012K-471	470	100	700	0.35
GCBN2012V-601	600	100	500	0.40
GCBN2012K-801	800	100	450	0.40
GCBN2012K-102	1000	100	400	0.45
GCBN2012H-102	1000	100	400	0.45
GCBN2012H-152	1500	100	350	0.50
GCBN2012H-202	2000	100	250	0.60
GCBN2012H-232	2300	100	200	0.80
GCBN2012H-272	2700	100	150	1.10
HCBN2012N-070	7	100	600	0.10
HCBN2012C-300	30	100	700	0.20
HCBN2012C-600	60	100	700	0.20
HCBN2012C-121	120	100	600	0.25
HCBN2012C-151	151	100	600	0.25
HCBN2012C-221	220	100	400	0.30
HCBN2012C-301	300	100	400	0.35
HCBN2012C-471	470	100	400	0.40
HCBN2012C-601	600	100	300	0.45
HCBN2012C-102	1000	100	200	0.50
LCBN2012K-300T30	30	100	3000	0.04
LCBN2012K-800T30	80	100	3000	0.04
LCBN2012K-121T20	120	100	2000	0.10
LCBN2012K-151T20	150	100	2000	0.10
LCBN2012K-221T20	220	100	2000	0.10
LCBN2012K-301T10	300	100	1000	0.20
LCBN2012K-471T10	470	100	1000	0.20
LCBN2012K-601T10	600	100	1000	0.20

MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

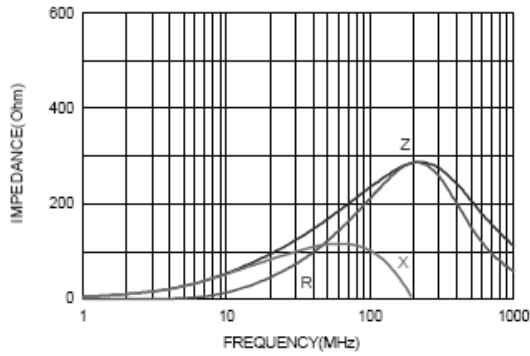
Typical Impedance v.s. Frequency Curve



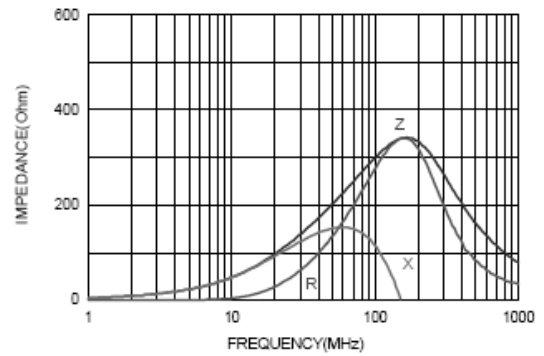
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

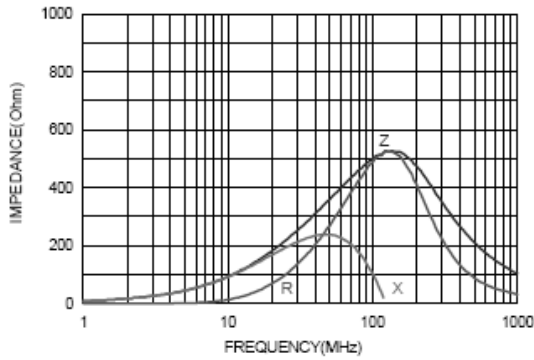
GCBN2012K-221



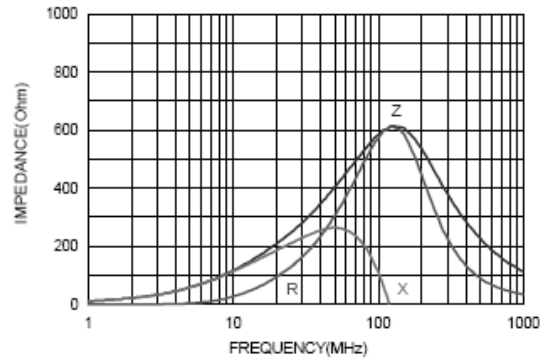
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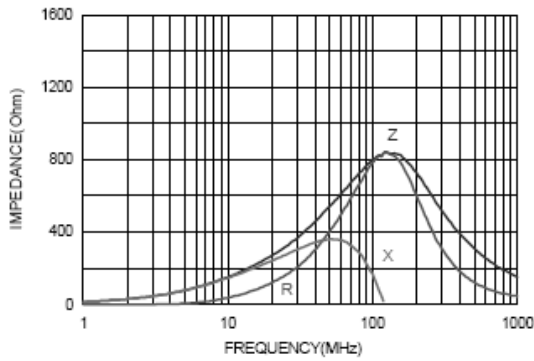
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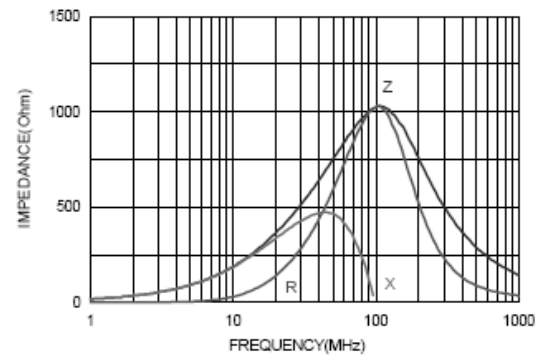
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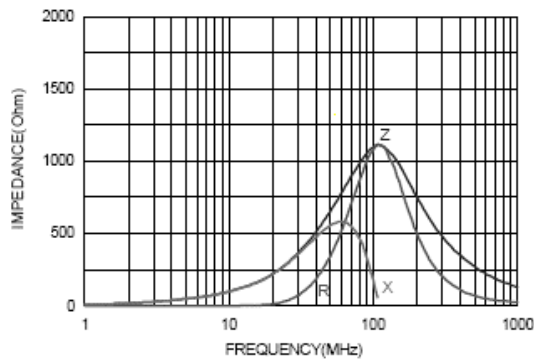
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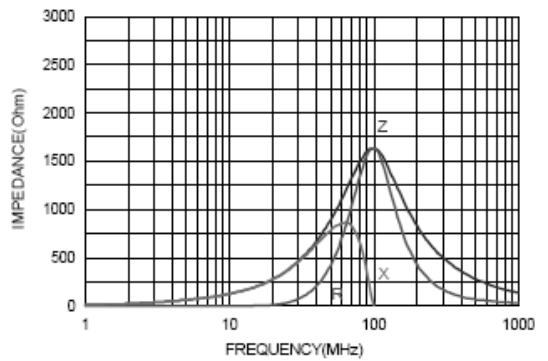
GCBN2012K-102



GCBN2012H-102



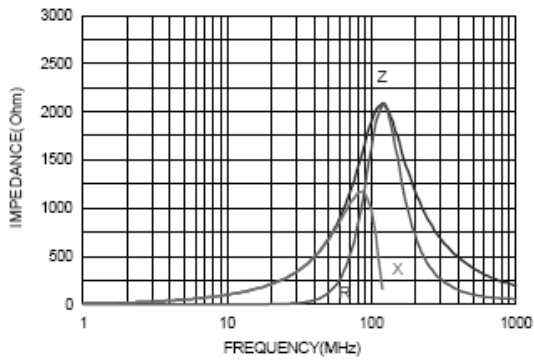
GCBN2012H-152



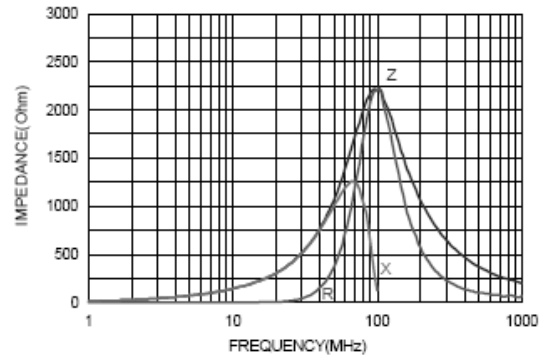
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

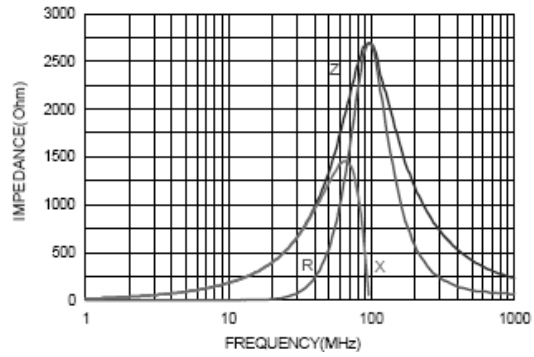
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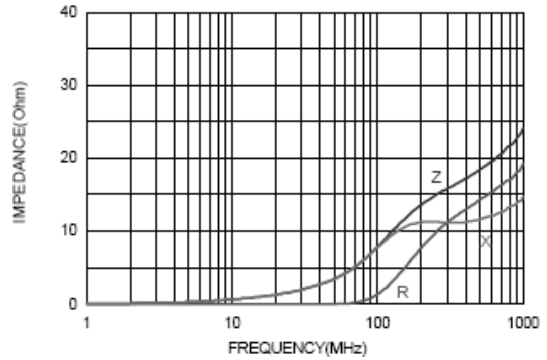
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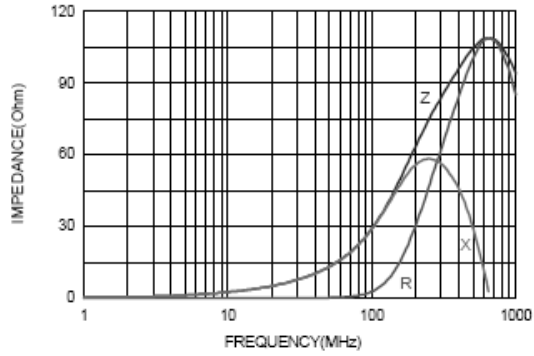
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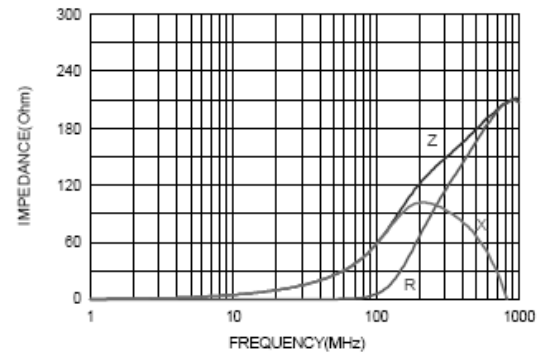
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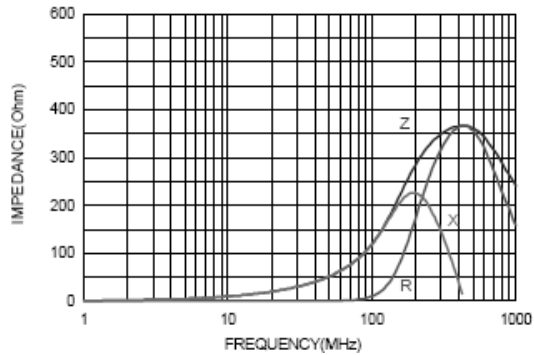
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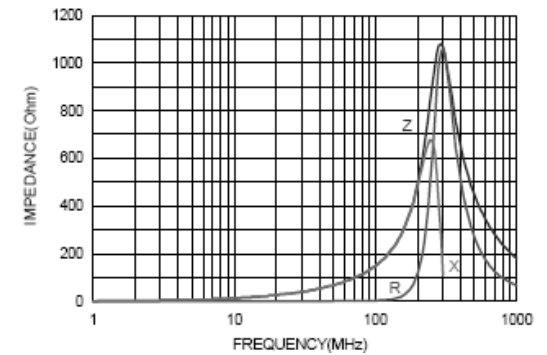
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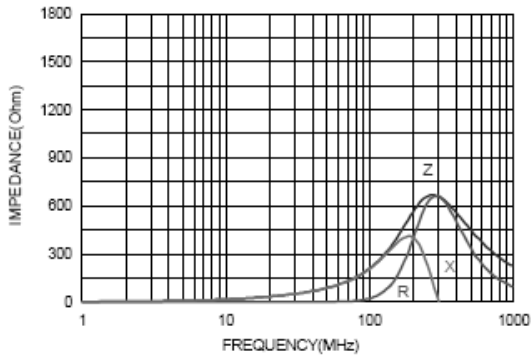
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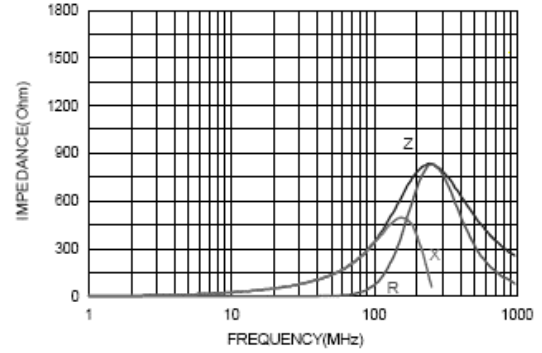
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

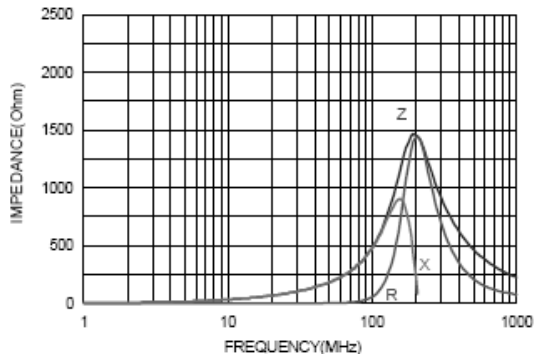
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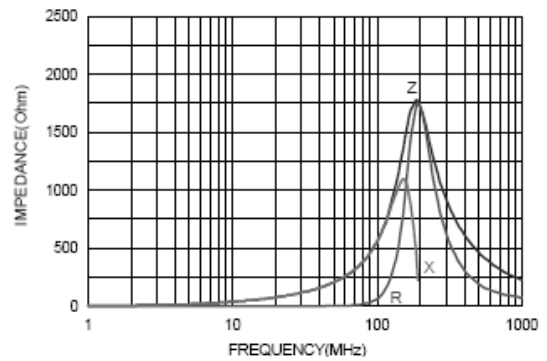
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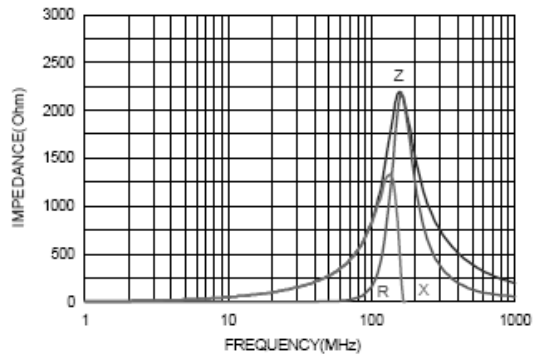
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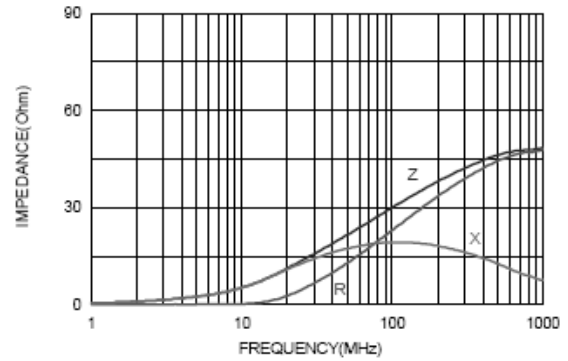
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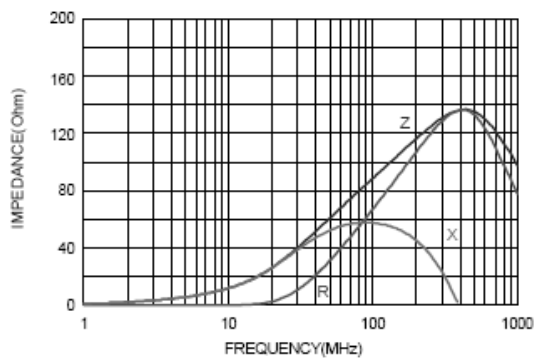
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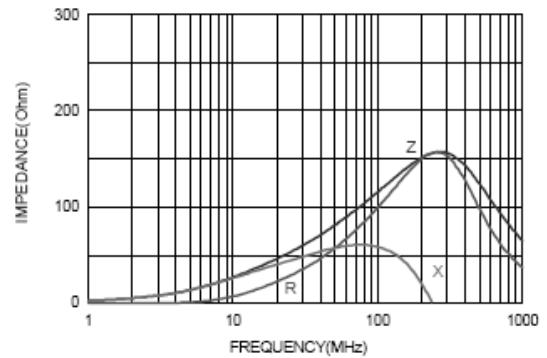
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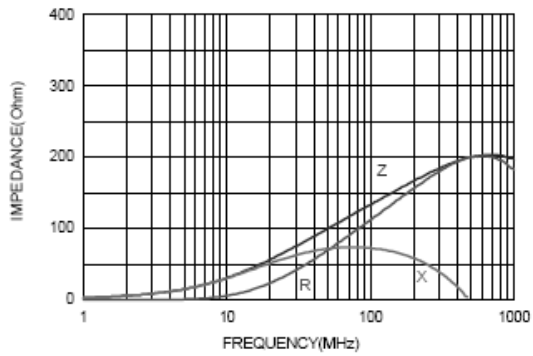
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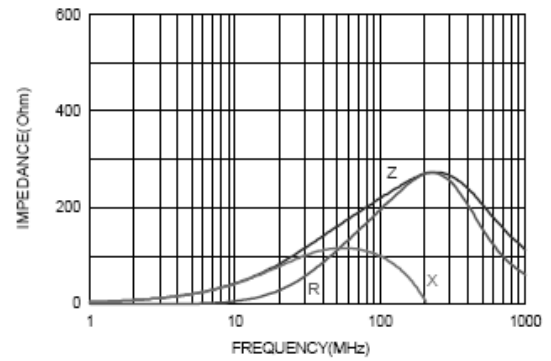
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

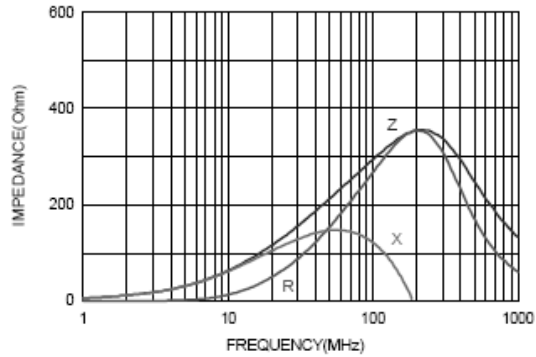
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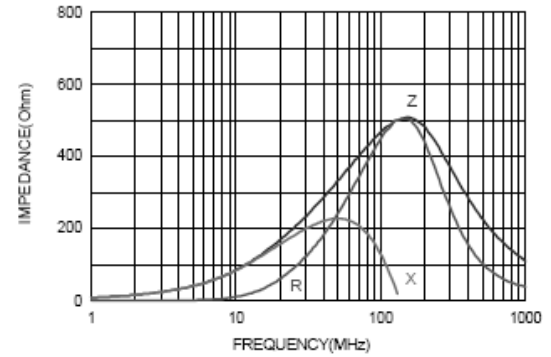
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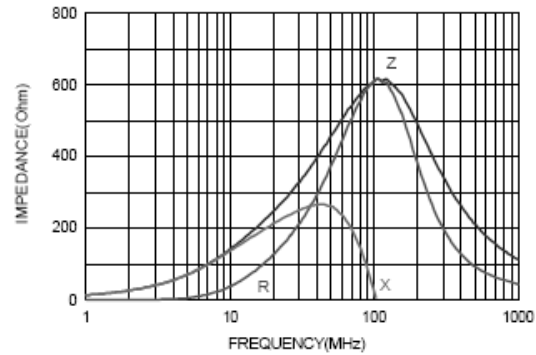
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LCBN2012K-471T10



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MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

ELECTRICAL CHARACTERISTICS

GCBN/HCBN/LCBN 3216 SERIES

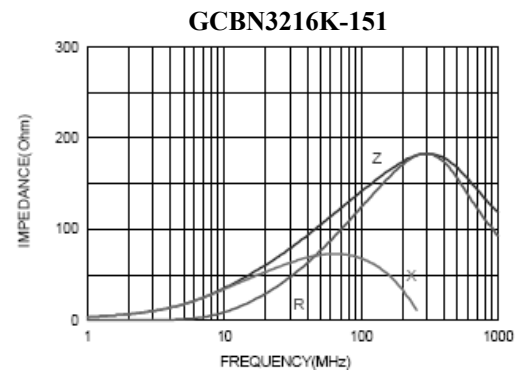
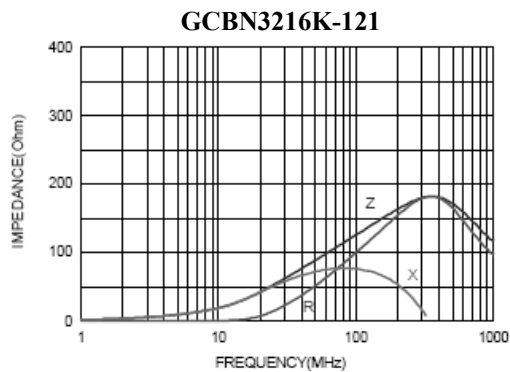
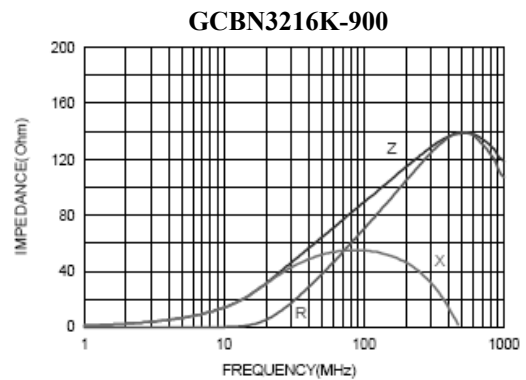
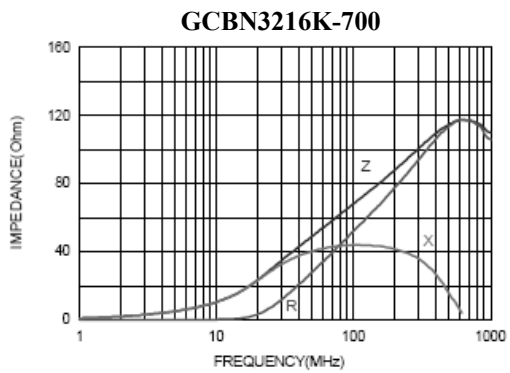
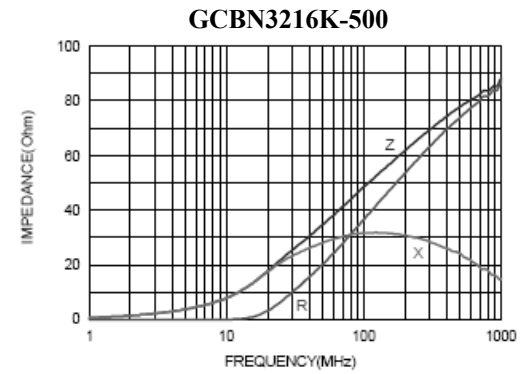
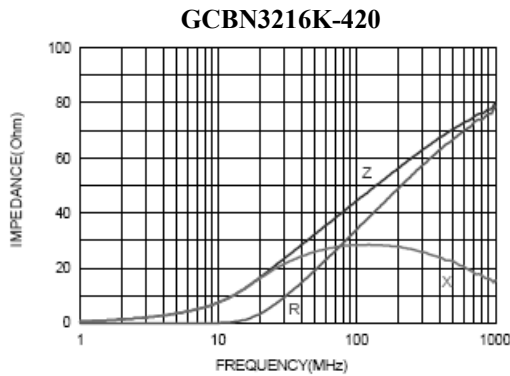
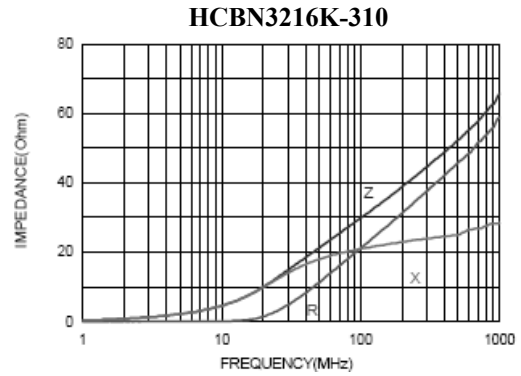
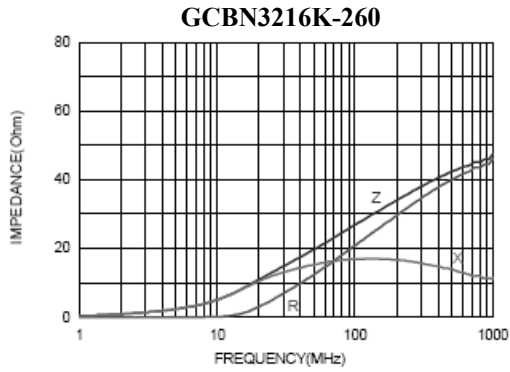
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Part No.	z (Ω)	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN3216K-260	26	100	500	0.20
GCBN3216K-310	31	100	500	0.20
GCBN3216K-420	42	100	500	0.20
GCBN3216K-500	50	100	500	0.20
GCBN3216K-700	70	100	500	0.20
GCBN3216K-900	90	100	500	0.20
GCBN3216K-121	120	100	900	0.15
GCBN3216K-151	150	100	900	0.15
GCBN3216K-221	220	100	700	0.35
GCBN3216K-301	300	100	700	0.35
GCBN3216K-471	470	100	400	0.35
GCBN3216K-601	600	100	400	0.40
GCBN3216K-801	800	100	300	0.60
GCBN3216K-102	1000	100	300	0.60
GCBN3216V-152	1500	50	300	0.70
GCBN3216V-202	2000	30	300	0.70
HCBN3216N-190	19	100	500	0.20
HCBN3216C-121	120	100	700	0.25
HCBN3216C-151	150	100	700	0.25
HCBN3216C-221	220	100	600	0.30
HCBN3216C-301	300	100	600	0.35
HCBN3216C-471	470	100	550	0.40
HCBN3216C-601	600	100	500	0.50
HCBN3216C-801	800	100	400	0.50
HCBN3216C-102	1000	100	300	0.55
LCBN3216K-300T30	30	100	3000	0.04
LCBN3216K-500T30	50	100	3000	0.04
LCBN3216K-800T30	80	100	3000	0.04
LCBN3216K-121T20	120	100	2000	0.10
LCBN3216K-151T20	150	100	2000	0.10
LCBN3216K-301T10	300	100	1000	0.20
LCBN3216K-471T10	470	100	1000	0.20
LCBN3216K-501T30	500	100	3000	0.04
LCBN3216K-601T20	600	100	2000	0.10

MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

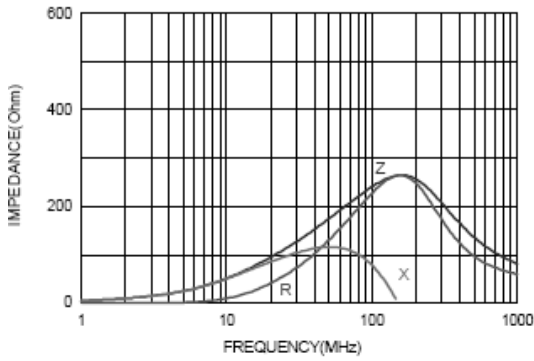
Typical Impedance v.s. Frequency Curve



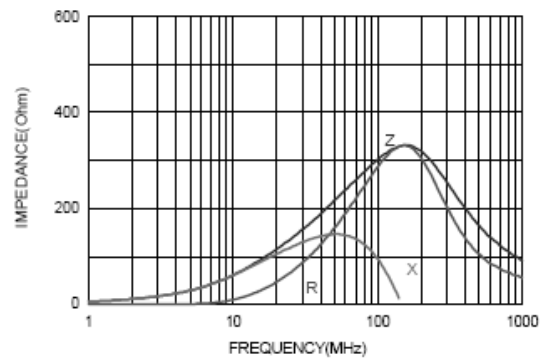
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

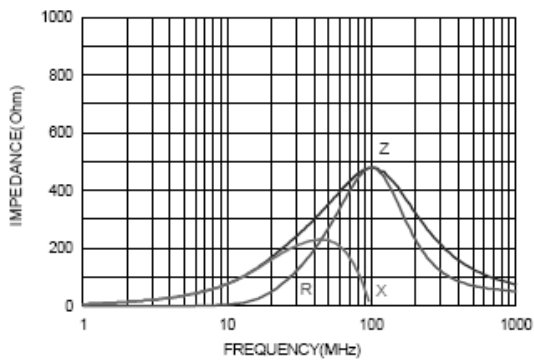
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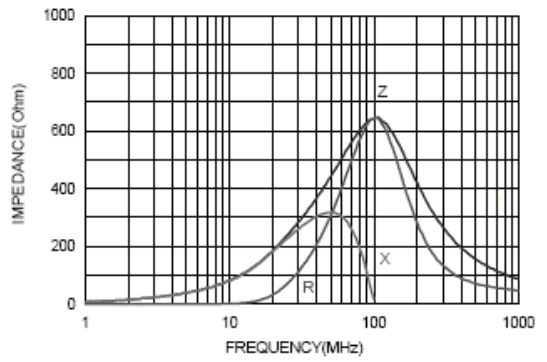
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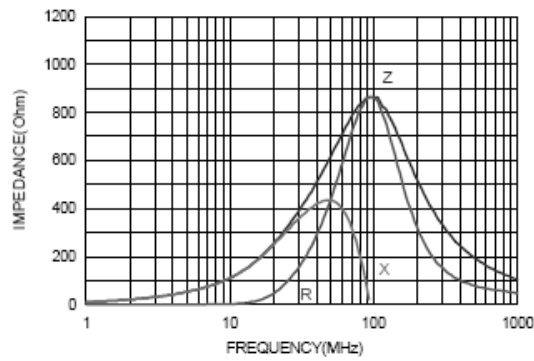
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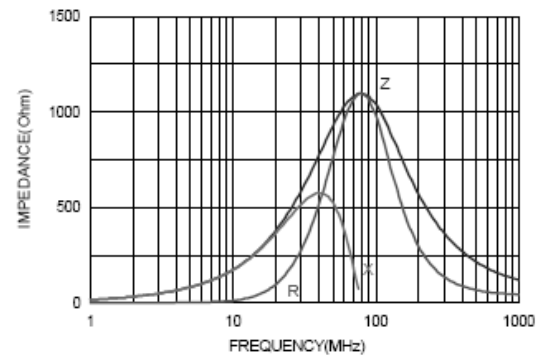
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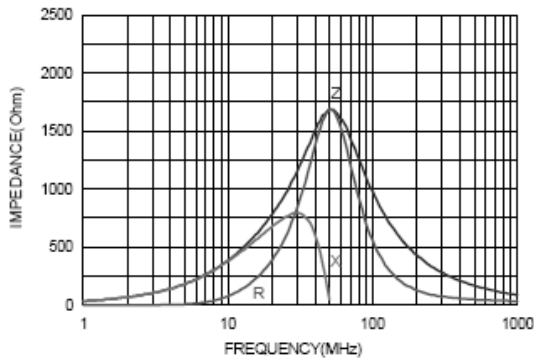
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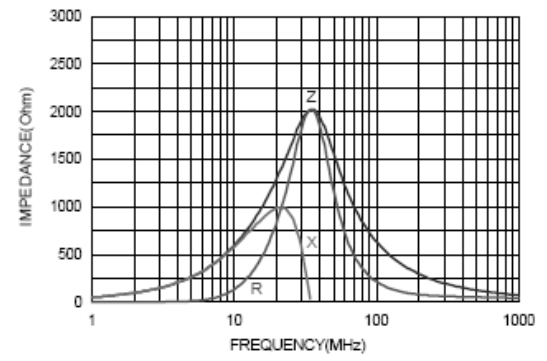
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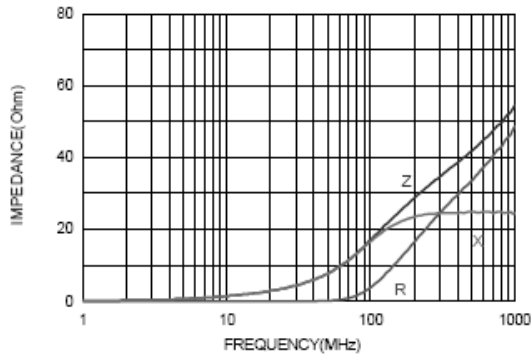
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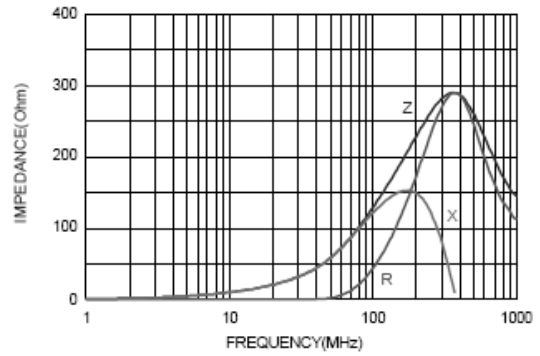
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

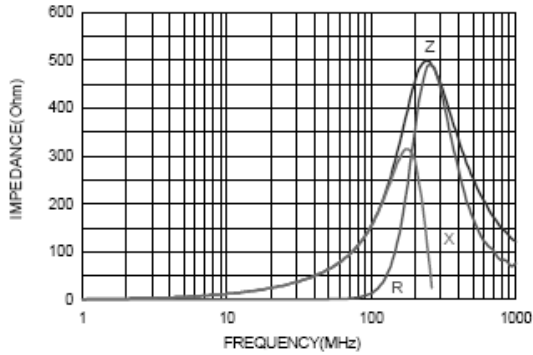
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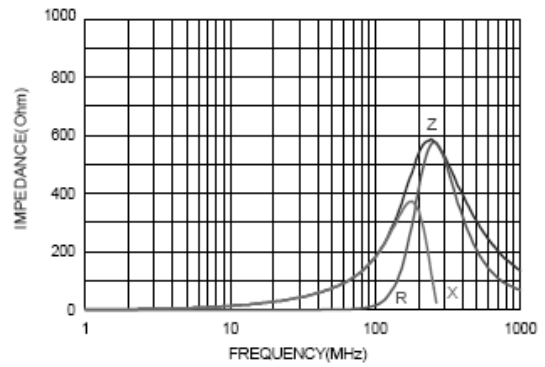
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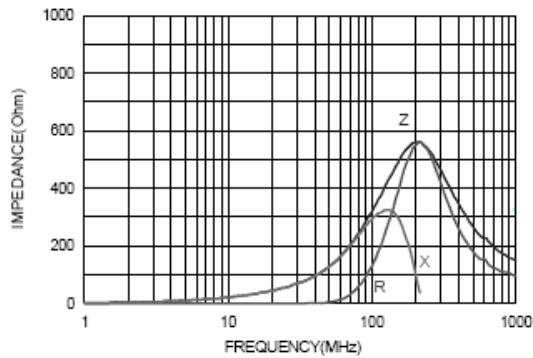
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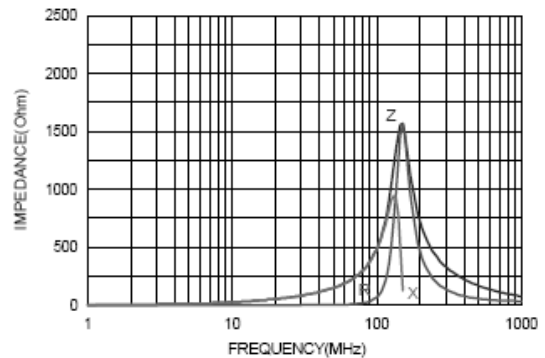
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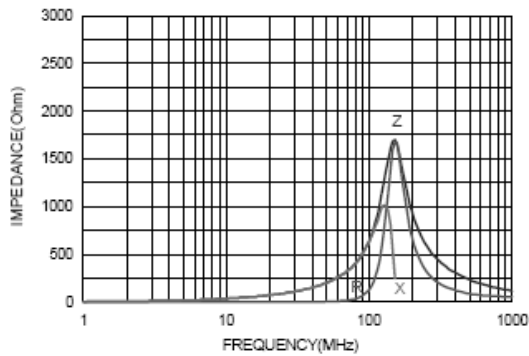
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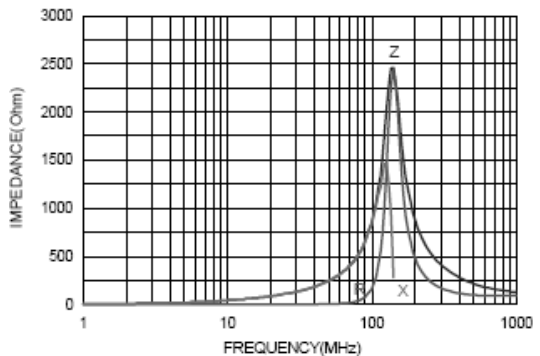
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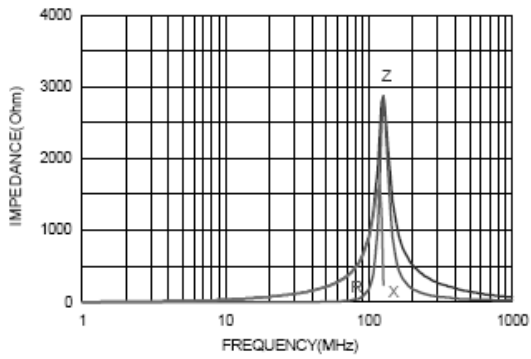
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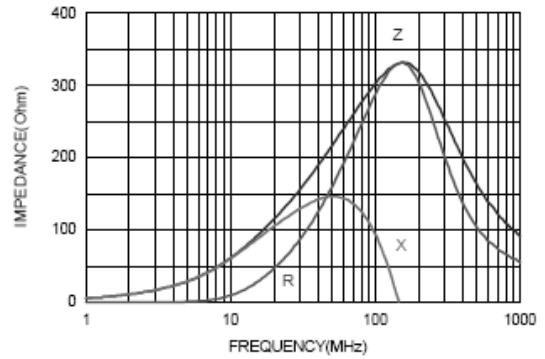
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

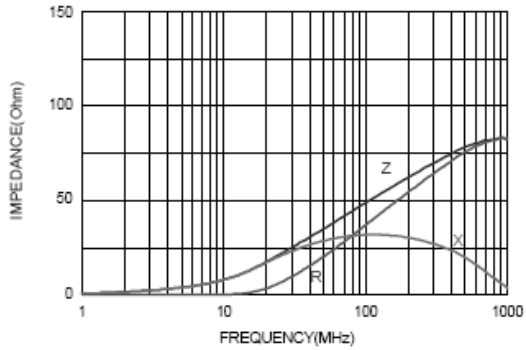
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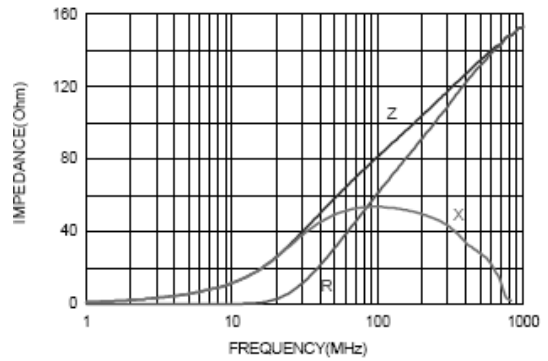
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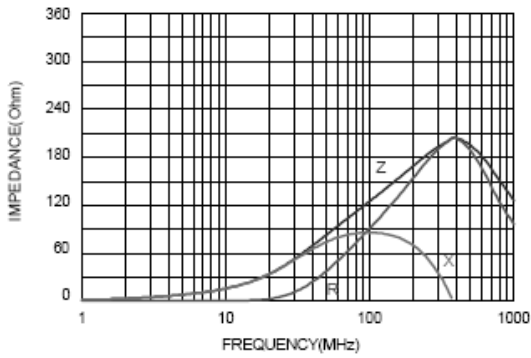
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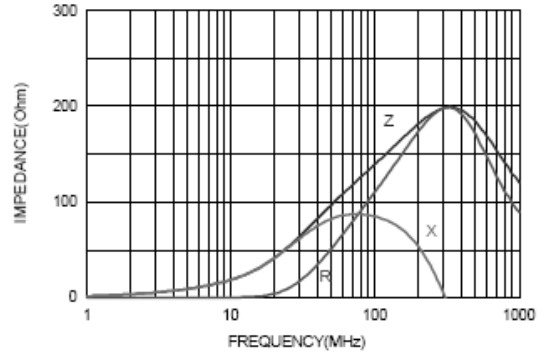
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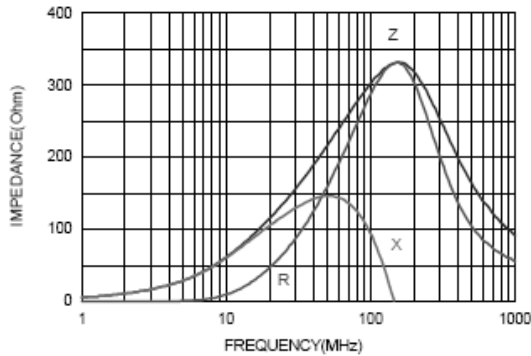
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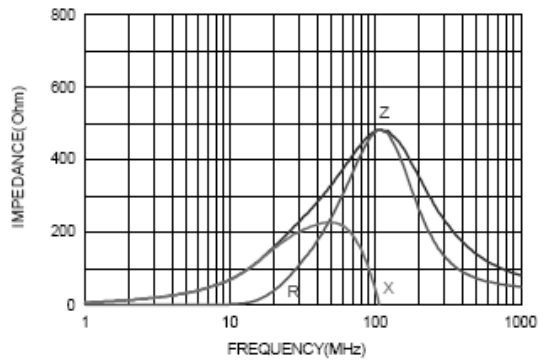
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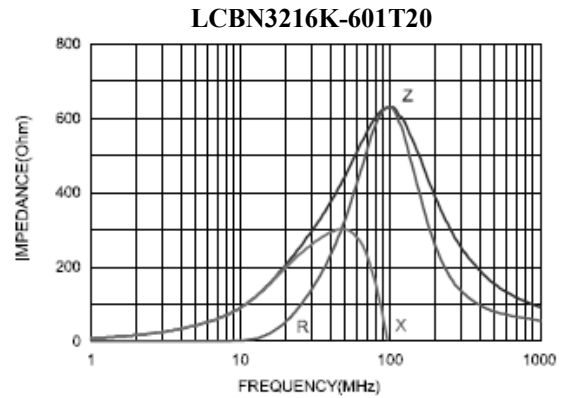
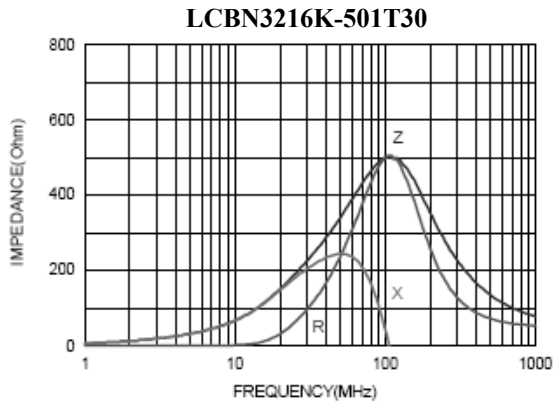


LCBN3216K-471T10



MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT



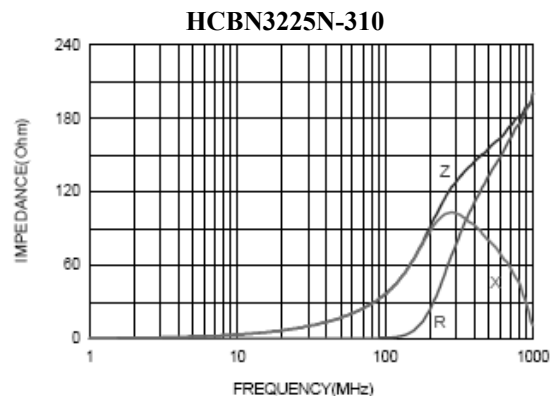
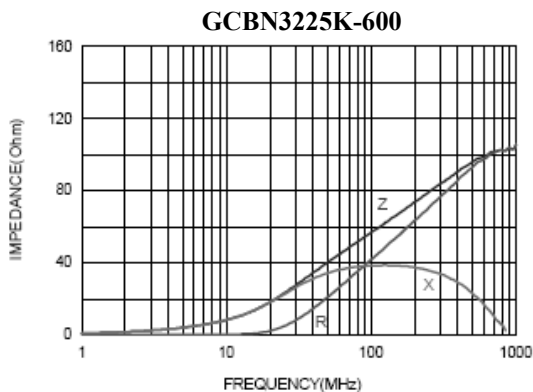
ELECTRICAL CHARACTERISTICS

GCBN/HCBN/LCBN 3225 SERIES

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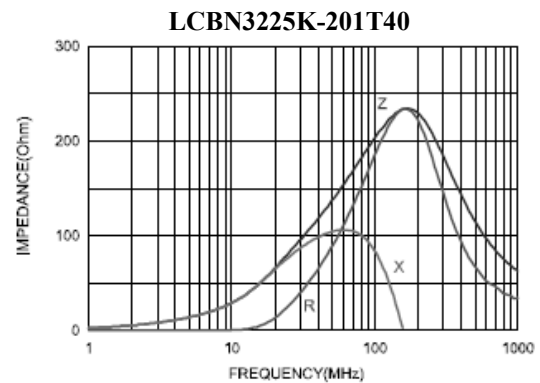
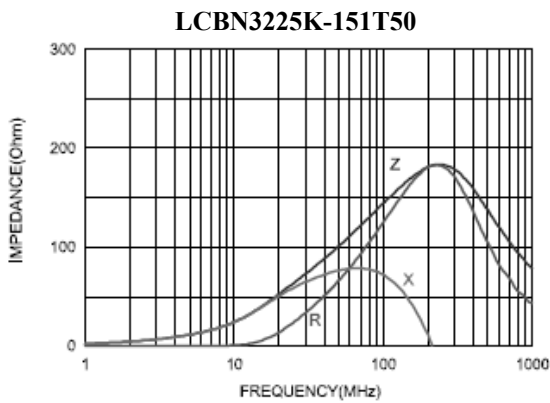
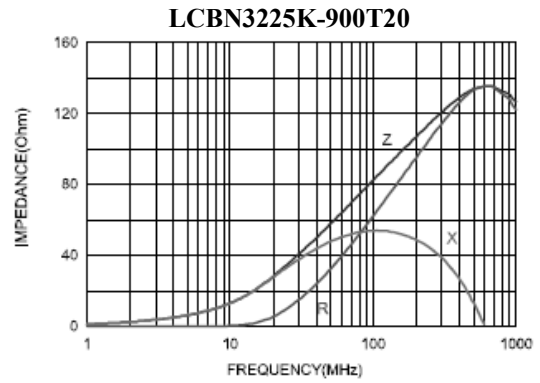
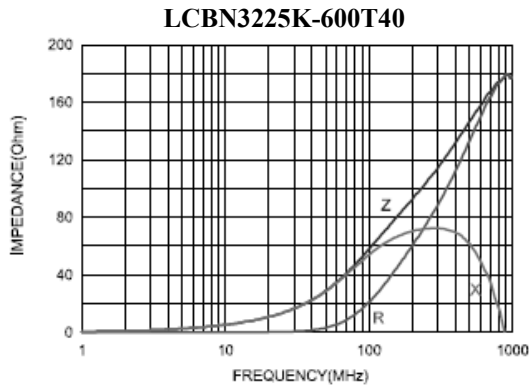
Part No.	$z(\Omega)$ $\pm 25\%$	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN3225K-600	60	100	400	0.30
HCBN3225N-310	31	100	400	0.3
LCBN3225K-600T40	60	100	4000	0.03
LCBN3225K-900T20	90	100	2000	0.10
LCBN3225K-151T50	150	100	5000	0.02
LCBN3225K-201T40	200	100	4000	0.03

Typical Impedance v.s. Frequency Curve



MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT



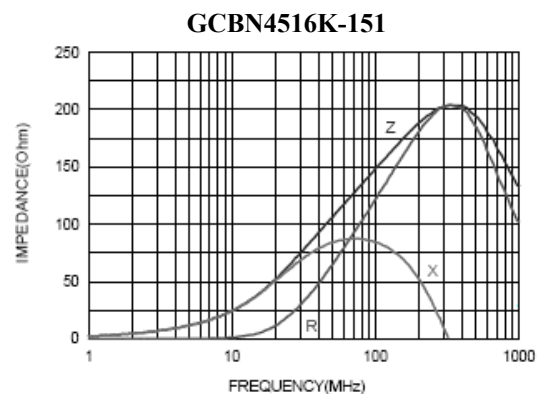
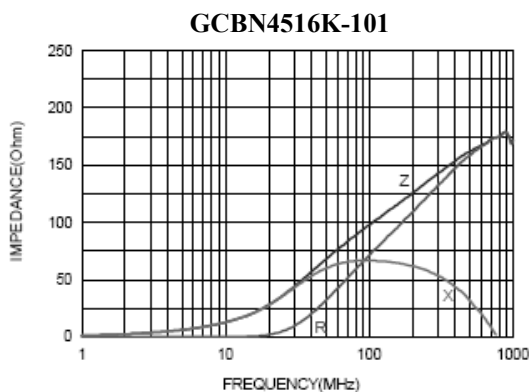
ELECTRICAL CHARACTERISTICS

GCBN/ LCBN 4516 SERIES

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Part No.	$z(\Omega)$ $\pm 25\%$	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN4516K-101	100	100	500	0.10
GCBN4516K-151	150	100	200	0.50
LCBN4516K-600T60	60	100	6000	0.01
LCBN4516K-800T30	80	100	3000	0.04

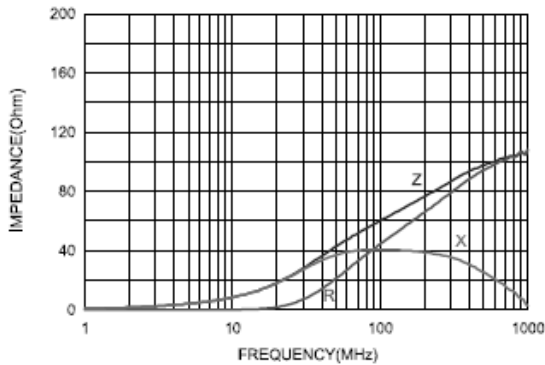
▪ Typical Impedance v.s. Frequency Curve



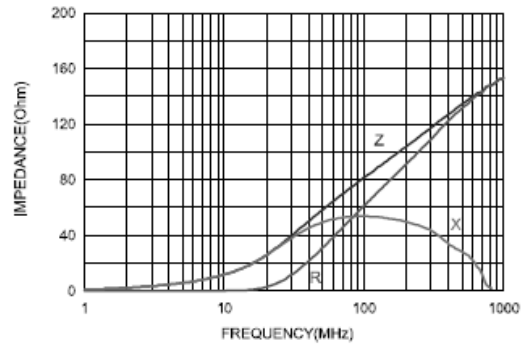
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

LCBN4516K-600T60



LCBN4516K-800T30



ELECTRICAL CHARACTERISTICS

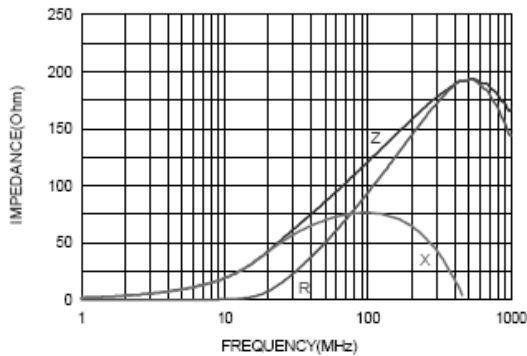
GCBN/LCBN 4532 SERIES

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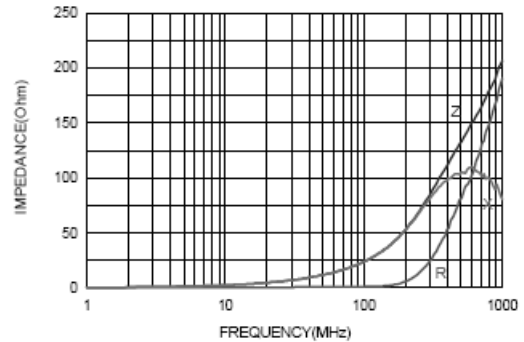
Part No.	$z(\Omega)$ $\pm 25\%$	Test Freq. (MHz)	IDC(mA) Max.	RDC(Ω) Max.
GCBN4532K-131	130	100	300	0.40
GCBN4532B-250	25	100	300	0.4
GCBN4532N-700	70	100	300	0.40
LCBN4532K-800T60	80	100	6000	0.01
LCBN4532K-131T30	130	100	3000	0.04
LCBN4532K-151T50	150	100	5000	0.02
LCBN4532H-681T40	680	100	4000	0.03
LCBN4532H-132T30	1300	60	3000	0.06
LCBN4532M-132T30	1300	100	3000	0.06

▪ Typical Impedance v.s. Frequency Curve

GCBN4532-131



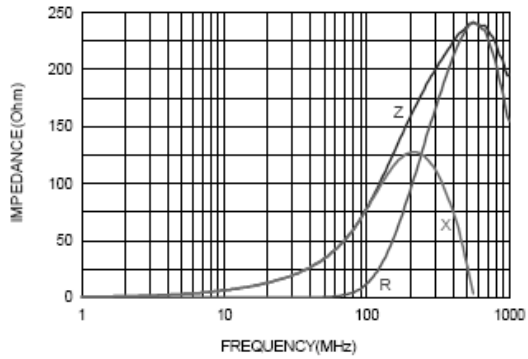
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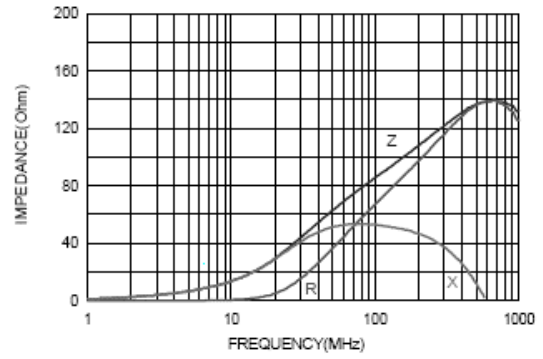
MULTILAYER CHIP BEAD/GCB/HCB/LCB SERIES

COMPONENT

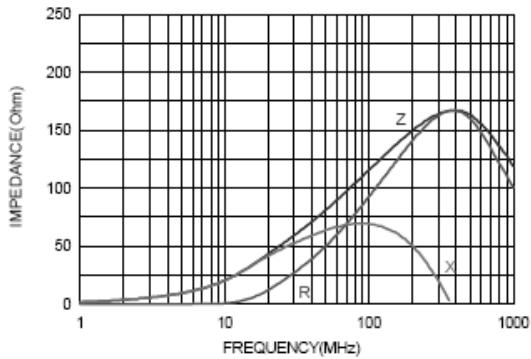
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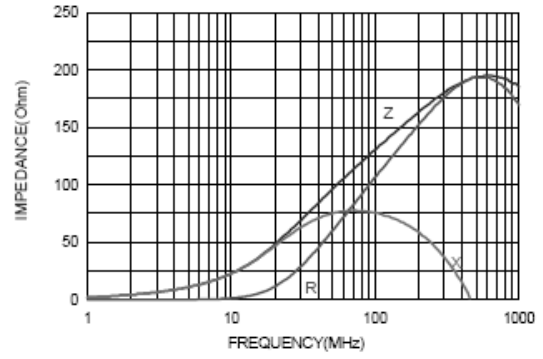
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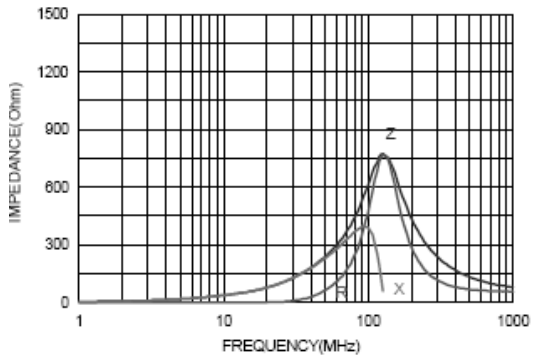
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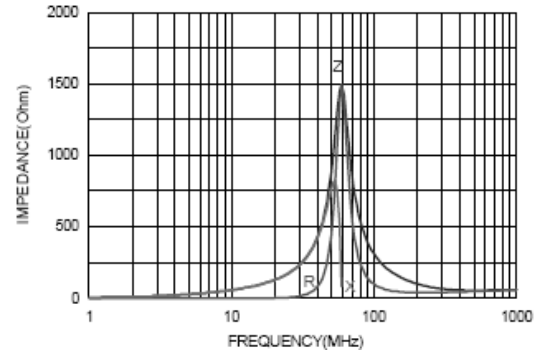
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