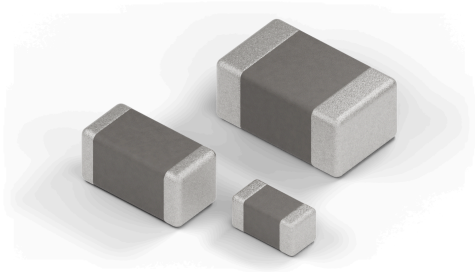
KOME

KCBG Series

Multilayer Chip Ferrite Beads



Features

- A unique terminal electrode structure ensures permissible current 6.0A(max).
- High impedance and EMI suppression effective over a wide frequency range.
- Suitable reflow and wave soldering.

TYPE	SIZES	IMPEDANCE	OPERATING TEMP.
Ferrite chip bead	0201 · 0402 · 0603 · 0805 · 1206	0 – 3000 Ω At test frequency 100 or 50 MHz, see table	-55 ~ +125 °C Includes product surface temperature rise

Applications

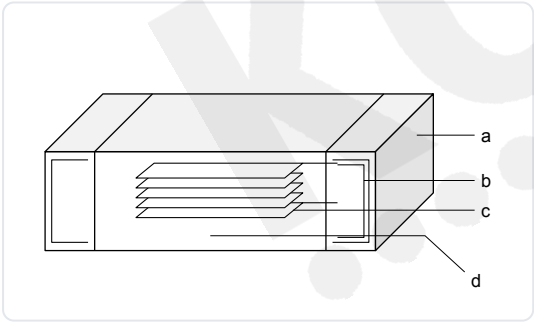
- Noise suppression in power lines or high current signal lines of electrical equipment such as communication equipment, computers and LCD TVs.

Part number system

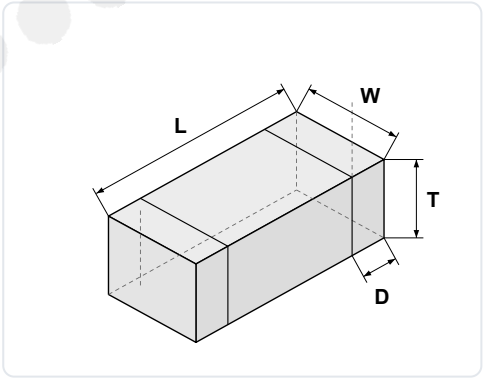
Example: KCBG0805U121T

KCBG	0805	U	121	T
Product Code Multilayer Chip Ferrite Beads	Dimensions (mm) 0201(060303) 0.6×0.3×0.3 · 0402(100505) 1.0×0.5×0.5 · 0603(160808) 1.6×0.8×0.8 · 0805(201209) 2.0×1.2×0.9 · 1206(321609) 3.2×1.6×0.9	Material Code U · X	Impedance (Ω) 110 = 11 · 121 = 120 · 102 = 1000	Packaging Style T = Tape & Reel · B = Bulk

Product structure and dimensions



a. Ni/Sn plating · b. Ag layer · c. Inner electrode · d. Body



Part No	L(mm)	W(mm)	T(mm)	D(mm)
060303 (0201)	0.6±0.03 (0.020±0.003)	0.3±0.03 (0.010±0.003)	0.3±0.03 (0.010±0.003)	0.15±0.05 (0.010±0.002)
100505 (0402)	1.0± 0.15 (0.040± 0.006)	0.5± 0.15 (0.020± 0.006)	0.5± 0.15 (0.020± 0.006)	0.25± 0.1 (0.010± 0.004)
160808 (0603)	1.6± 0.20 (0.063± 0.008)	0.8± 0.20 (0.031± 0.008)	0.8± 0.20 (0.031± 0.008)	0.3± 0.2 (0.01± 0.008)
201209 (0805)	2.0± 0.20 (0.079± 0.008)	1.2± 0.20 (0.047± 0.008)	0.9± 0.20 (0.035± 0.008)	0.5± 0.3 (0.020± 0.012)
321609 (1206)	3.2± 0.20 (0.126± 0.008)	1.6± 0.20 (0.063± 0.008)	0.9± 0.20 (0.035± 0.008)	0.5± 0.3 (0.020± 0.012)

Unit: mm (inch)

Electrical characteristics

Impedance testing conditions: E4982A or equivalent, test voltage 50mV ± 5mV, Temperature 15°C~35°C， Humidity 25%~75%.

RDC Testing conditions：RM3542A or equivalent, Temperature 15°C~35°C， Humidity 25%~75%.

Rated current：Apply the rated current, and the surface temperature rise of the product shall not exceed 40°C.

0603 Type

Part No.	Tolerance	Impedance (Ω)	Test frequency (MHz)	DCR (Ω) Max	Ir (mA) Max
KCBG0201X100T	±5Ω	10	100	0.10	500
KCBG0201X220T	±25%	22	100	0.25	300
KCBG0201X250T	±25%	25	100	0.26	450
KCBG0201X330T	±25%	33	100	0.30	300
KCBG0201X600T	±25%	60	100	0.40	200
KCBG0201X700T	±25%	70	100	0.40	200
KCBG0201X800T	±25%	80	100	0.40	200
KCBG0201X121T	±25%	120	100	0.50	200
KCBG0201X241T	±25%	240	100	0.80	200
KCBG0201X601T	±25%	600	100	1.50	100
KCBG0201X102T	±25%	1000	100	2.50	100

1005 Type

Part No.	Tolerance	Impedance (Ω)	Test frequency (MHz)	DCR (Ω) Max	Ir (mA) Max
KCBG0402U000T	0～15Ω	0	100	0.05	500
KCBG0402U050T	0～15Ω	5	100	0.05	500
KCBG0402U070T	0～11Ω	7	100	0.05	500
KCBG0402U090T	5～13Ω	9	100	0.05	500
KCBG0402U100T	7～15Ω	10	100	0.05	500
KCBG0402U110T	7～15Ω	11	100	0.05	500
KCBG0402U150T	9～21Ω	15	100	0.05	500
KCBG0402U190T	12～25Ω	19	100	0.10	300
KCBG0402U220T	±25%	22	100	0.13	300
KCBG0402U260T	±25%	26	100	0.13	300
KCBG0402U300T	±25%	30	100	0.20	300
KCBG0402U310T	±25%	31	100	0.20	300
KCBG0402U330T	±25%	33	100	0.20	300
KCBG0402U360T	±25%	36	100	0.20	300
KCBG0402U600T	±25%	60	100	0.30	200
KCBG0402U700T	±25%	70	100	0.35	200
KCBG0402U750T	±25%	75	100	0.35	200
KCBG0402U800T	±25%	80	100	0.35	200
KCBG0402U101T	±25%	100	100	0.35	200
KCBG0402U121T	±25%	120	100	0.40	200
KCBG0402U151T	±25%	150	100	0.47	200
KCBG0402U181T	±25%	180	100	0.52	150
KCBG0402U201T	±25%	200	100	0.52	150
KCBG0402U221T	±25%	220	100	0.52	150
KCBG0402U301T	±25%	300	100	0.65	100
KCBG0402U331T	±25%	330	100	0.90	100
KCBG0402U471T	±25%	470	100	0.90	100
KCBG0402U501T	±25%	500	100	0.90	100
KCBG0402U601T	±25%	600	100	1.00	100
KCBG0402U801T	±25%	800	100	1.30	100
KCBG0402U102T	±25%	1000	100	1.40	100
KCBG0402U122T	±25%	1200	100	1.80	25

1608 Type

Part No.	Tolerance	Impedance (Ω)	Test frequency (MHz)	DCR (Ω) Max	Ir (mA) Max
KCBG0603U000T	0～15Ω	0	100	0.05	2000
KCBG0603U050T	0～15Ω	5	100	0.05	2000
KCBG0603U070T	0～11Ω	7	100	0.05	2000
KCBG0603U090T	5～13Ω	9	100	0.05	2000
KCBG0603U100T	7～15Ω	10	100	0.05	2000
KCBG0603U110T	7～15Ω	11	100	0.05	2000
KCBG0603U150T	9～21Ω	15	100	0.05	2000
KCBG0603U190T	12～25Ω	19	100	0.05	2000
KCBG0603U220T	±25%	22	100	0.05	2000
KCBG0603U300T	±25%	30	100	0.05	1000
KCBG0603U310T	±25%	31	100	0.05	1000
KCBG0603U330T	±25%	33	100	0.05	1000
KCBG0603U600T	±25%	60	100	0.15	400
KCBG0603U700T	±25%	70	100	0.15	400
KCBG0603U750T	±25%	75	100	0.15	400
KCBG0603U800T	±25%	80	100	0.15	400
KCBG0603U900T	±25%	90	100	0.20	300
KCBG0603U101T	±25%	100	100	0.20	300
KCBG0603U121T	±25%	120	100	0.20	300
KCBG0603U151T	±25%	150	100	0.20	300
KCBG0603U181T	±25%	180	100	0.30	300
KCBG0603U201T	±25%	200	100	0.30	300
KCBG0603U221T	±25%	220	100	0.30	300
KCBG0603U301T	±25%	300	100	0.35	200
KCBG0603U331T	±25%	330	100	0.45	200
KCBG0603U471T	±25%	470	100	0.45	200
KCBG0603U501T	±25%	500	100	0.45	200
KCBG0603U601T	±25%	600	100	0.45	200
KCBG0603U801T	±25%	800	100	0.60	200
KCBG0603U102T	±25%	1000	100	0.60	200
KCBG0603U122T	±25%	1200	100	0.70	200
KCBG0603U152T	±25%	1500	100	0.70	200
KCBG0603U182T	±25%	1800	100	0.90	150
KCBG0603U202T	±25%	2000	100	1.10	150
KCBG0603U222T	±25%	2200	100	1.20	100
KCBG0603U252T	±25%	2500	100	1.30	50

2012 Type

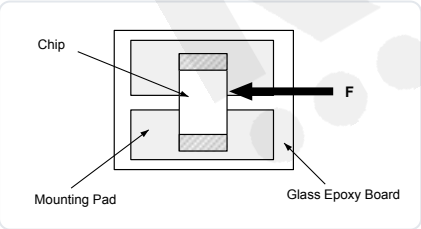
Part No.	Tolerance	Impedance (Ω)	Test frequency (MHz)	DCR (Ω) Max	Ir (mA) Max
KCBG0805U000T	0～15Ω	0	100	0.04	2200
KCBG0805U050T	0～15Ω	5	100	0.04	2200
KCBG0805U070T	0～11Ω	7	100	0.04	2200
KCBG0805U090T	5～13Ω	9	100	0.04	2200
KCBG0805U100T	7～15Ω	10	100	0.04	2200
KCBG0805U110T	7～15Ω	11	100	0.04	2200
KCBG0805U150T	9～21Ω	15	100	0.04	2200
KCBG0805U190T	12～25Ω	19	100	0.04	2200
KCBG0805U220T	±25%	22	100	0.05	1500
KCBG0805U260T	±25%	26	100	0.05	1500
KCBG0805U300T	±25%	30	100	0.05	1500
KCBG0805U310T	±25%	31	100	0.05	1500
KCBG0805U330T	±25%	33	100	0.05	1500
KCBG0805U400T	±25%	40	100	0.10	1000
KCBG0805U500T	±25%	50	100	0.10	1000
KCBG0805U600T	±25%	60	100	0.10	1000
KCBG0805U700T	±25%	70	100	0.10	1000
KCBG0805U800T	±25%	80	100	0.10	1000
KCBG0805U900T	±25%	90	100	0.15	800
KCBG0805U101T	±25%	100	100	0.15	800
KCBG0805U121T	±25%	120	100	0.15	800
KCBG0805U151T	±25%	150	100	0.18	700
KCBG0805U181T	±25%	180	100	0.18	700
KCBG0805U221T	±25%	220	100	0.20	600
KCBG0805U301T	±25%	300	100	0.20	600
KCBG0805U331T	±25%	330	100	0.30	550
KCBG0805U391T	±25%	390	100	0.30	550
KCBG0805U471T	±25%	470	100	0.30	550
KCBG0805U501T	±25%	500	100	0.30	550
KCBG0805U601T	±25%	600	100	0.30	550
KCBG0805U801T	±25%	800	100	0.35	500
KCBG0805U102T	±25%	1000	100	0.35	500
KCBG0805U122T	±25%	1200	100	0.40	500
KCBG0805U152T	±25%	1500	100	0.40	500
KCBG0805U202T	±25%	2000	100	0.45	500
KCBG0805U222T	±25%	2200	100	0.45	500
KCBG0805U252T	±25%	2500	50	0.50	400
KCBG0805U272T	±25%	2700	50	0.60	200
KCBG0805U302T	±25%	3000	50	0.60	200

3216 Type

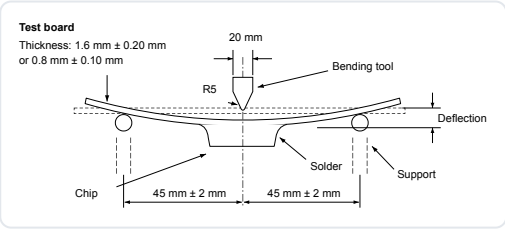
Part No.	Tolerance	Impedance (Ω)	Test frequency (MHz)	DCR (Ω) Max	Ir (mA) Max
KCBG1206U000T	0～15Ω	0	100	0.05	2200
KCBG1206U050T	0～15Ω	5	100	0.05	2200
KCBG1206U070T	0～11Ω	7	100	0.05	2200
KCBG1206U090T	5～13Ω	9	100	0.05	2000
KCBG1206U100T	7～15Ω	10	100	0.05	2000
KCBG1206U110T	7～15Ω	11	100	0.05	2000
KCBG1206U150T	9～21Ω	15	100	0.05	2000
KCBG1206U190T	12～25Ω	19	100	0.05	2000
KCBG1206U220T	±25%	22	100	0.05	2000
KCBG1206U300T	±25%	30	100	0.05	2000
KCBG1206U310T	±25%	31	100	0.05	2000
KCBG1206U500T	±25%	50	100	0.10	1000
KCBG1206U600T	±25%	60	100	0.10	1000
KCBG1206U700T	±25%	70	100	0.10	1000
KCBG1206U750T	±25%	75	100	0.10	1000
KCBG1206U800T	±25%	80	100	0.10	1000
KCBG1206U900T	±25%	90	100	0.10	1000
KCBG1206U101T	±25%	100	100	0.10	1000
KCBG1206U121T	±25%	120	100	0.10	1000
KCBG1206U151T	±25%	150	100	0.15	1000
KCBG1206U181T	±25%	180	100	0.15	1000
KCBG1206U221T	±25%	220	100	0.20	800
KCBG1206U301T	±25%	300	100	0.20	800
KCBG1206U331T	±25%	330	100	0.30	600
KCBG1206U471T	±25%	470	100	0.30	600
KCBG1206U501T	±25%	500	100	0.30	600
KCBG1206U601T	±25%	600	100	0.30	600
KCBG1206U801T	±25%	800	100	0.35	600
KCBG1206U102T	±25%	1000	100	0.35	600
KCBG1206U122T	±25%	1200	100	0.60	300
KCBG1206U152T	±25%	1500	50	0.60	300
KCBG1206U182T	±25%	1800	50	0.80	100
KCBG1206U202T	±25%	2000	50	1.00	100
KCBG1206U252T	±25%	2500	50	1.20	50
KCBG1206U302T	±25%	3000	50	1.50	50

Reliability test method

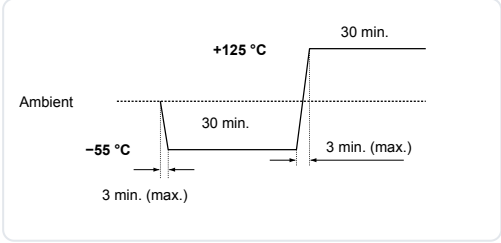
No.	Items	Requirements	Test Methods and Remarks
1	Operating Temperature Range	-55°C～+125°C	Includes product surface temperature rise
2	Solder ability	No mechanical damage. 95%（75% for 0603 series）or more of electrode area shall be coated by new solder.	Preheating temperature:120°C to 150°C Preheating time: 60s Solder 96.5%Sn/3.0%Ag/0.5%Cu of the Sn solder. Solder temperature: 245±3°C Immersion tin depth:10mm Duration : 3±0.3s Dip performance to a flux of about:3～5 s
3	Resistance to Soldering Heat	No mechanical damage. Inductance ： Impedance change: within ±30%	Preheating temperature: 120°C to 150°C Preheating time: 60s Solder 96.5%Sn/3.0%Ag/0.5%Cu of the Sn solder. Solder temperature: 260°C±5°C Immersion tin depth:10mm Duration : 10±1s Dip performance to a flux of about:3～5 s
4	Adhesion of electrode	The termination and body should be no damage.	Applied force: 2N force for 0603 series；5N force for 1005 series；7N force for 1608 series；10N force for 2012、3216 series. Keep time ：10±1S
5	Low temperature resistance	No mechanical damage. Impedance change: within ±30%	Temperature:-55±2°C Testing time: 1000 +24/–0 h
6	Bending strength	No mechanical damage	Testing board: glass epoxy-resin substrate For （1±0.5） mm/s compression speed, curvature: 2mm, hold time20s±1s 。
7	Vibration	No mechanical damage. Impedance change: within ±30%	Amplitude modulation: 1.5mm Test time: A period of 2h in each of 3 mutually perpendicular directions. Frequency range: 10Hz to 55Hz to 10Hz for 1min.
8	High temperature resistance	No mechanical damage. Impedance change: within ±30%	Testing time: 1000 +24/–0 h Temperature: 125±2°C
9	Static Humidity	No mechanical damage. Impedance change: within ±30%	Humidity: 90% to 95% RH Temperature: 60°C±2°C Testing time: 1000 +24/–0 h
10	High temperature load	No mechanical damage. Impedance change: within ±30%	impose current: at room Testing time: 1000 +24/–0 h Temperature: 85±2°C
11	Temperature Shock	No mechanical damage. Impedance change: within ±30%	Temperature: -55°C for 30±3min +125°C for 30±3min Number of cycles: 100



Adhesion of electrode



Bending strength



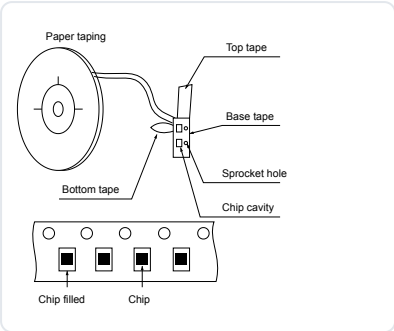
Temperature shock

Note: When there are questions concerning, measurement shall be made after 24±2hrs of recovery under the standard condition.

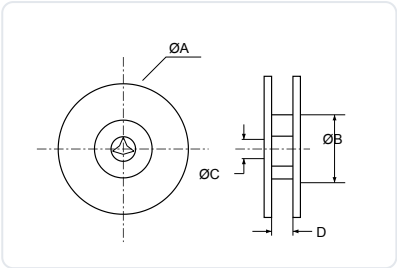
Product characteristic curve

See attached table.

Packaging



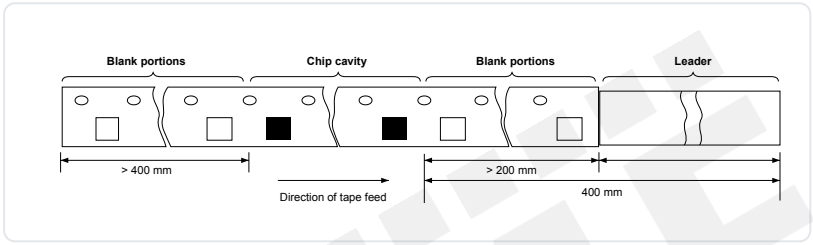
Taping drawings



Reel dimensions (Unit: mm)

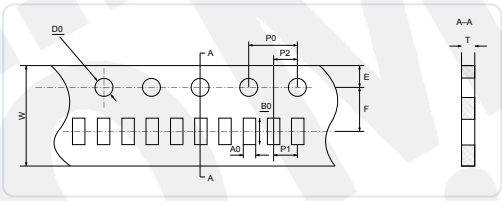
Size	A	B	C	D
7 inch	178±2.0	60±2.0	13.0±1.0	9.5±2.0
13 inch	330±2.0	100±2.0	13.5±1.0	12.4±2.0

Note: 7 inch is available in 060303, 100505, 160808, 201209, 321609, 322513 sizes, 13 inch is available in 451616, 453215 sizes.



Leader and blank portion

Taping dimensions (Unit: mm) · Paper tape



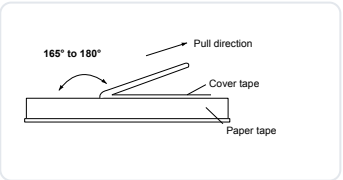
Part NO.	A0	B0	W	F	E	P1	P2	P0	D0	T
060303	0.38±0.03	0.68±0.03	8.00±0.10	3.50±0.05	1.75±0.05	2.00±0.05	2.00±0.05	4.00±0.10	1.55±0.05	0.42±0.03
100505	0.59±0.10	1.12±0.10	8.00±0.20	3.50±0.10	1.75±0.20	2.00±0.10	2.00±0.10	4.00±0.20	1.55±0.10	0.60±0.10
160808	1.05±0.20	1.85±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10
201209	1.45±0.20	2.35±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10
321609	1.90±0.20	3.46±0.20	8.00±0.20	3.50±0.10	1.75±0.20	4.00±0.20	2.00±0.10	4.00±0.20	1.55±0.10	0.95±0.10

Peeling off force

(1) Peeling force should be 0.1~0.7N pulling in the direction of arrow.

(2) Speed of peeling off: 300mm/min.

(3) The cover bond should not be damaged and bond the tape when it peeled off.



Packaging quantity

Size	321609	201212	201209	160808	100505	060303
REEL	4000	3000	4000	4000	10000	15000
BOX	40000	30000	40000	40000	100000	150000
CASE	240000	180000	240000	240000	600000	900000

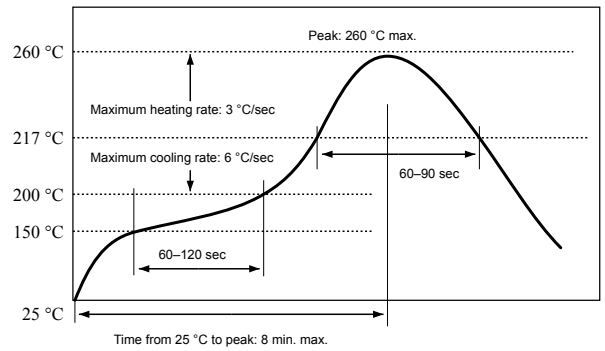
Recommended soldering conditions

Products can be applied to reflow soldering.

Pre-heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150°C max. Also cooling into solvent after soldering should be in such way that the temperature difference is limited to 100°C max. Un-enough pre-heating may cause cracks on the ferrite, resulting in the deterioration of product quality.

Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode. When soldering is repeated, allowable time is the accumulated time.

Reflow soldering profile



Preheat condition: 150 ~200°C/60~120sec

Allowed time above 217°C: 60~90sec

Max temp: 260 °C

Max time at max temp: 10 sec

Solder paste: Sn/3.0Ag/0.5Cu

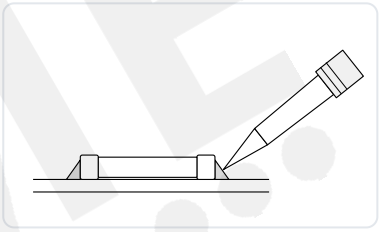
Allowed reflow time: 2x max

Iron soldering

Perform soldering at 350°C on 30W max

Time: < 5S

Take care not to apply the tip of the soldering iron to the terminal electrodes



Cleaning

(1) Cleaning temperature : 60°C max

(2) Cleaning time: 1 minute min.

(3) Ultrasonic output power: 200W max

Storage

Storage period

Products which inspected inductor company over 1 year ago should be examined and used, which can be Confirmed with inspection No. marked on the container. Solder ability should be checked if this period is exceeded.

Storage conditions

⑴Products should be storage in the warehouse on the following conditions: Temperature : -10~+40°C Humidity: 30~70% relative humidity

⑵Don't keep products in corrosive gases such as sulfur, chlorine gas or acid , or it may case oxidization of Electrodes resulting in poor solder ability.

⑶Products should be storaged on the palette for the prevention of the influence from humidity, dust and so on.

⑷Products should be storaged in the warehouse without heat shock, vibration, direct sunlight and so on.

⑸Products should be storaged under the airtight packaged condition.

Usage of ODS

For ODS listed below , we don't use in process。 ODS: CCl4, HCFC, etc.

Notes

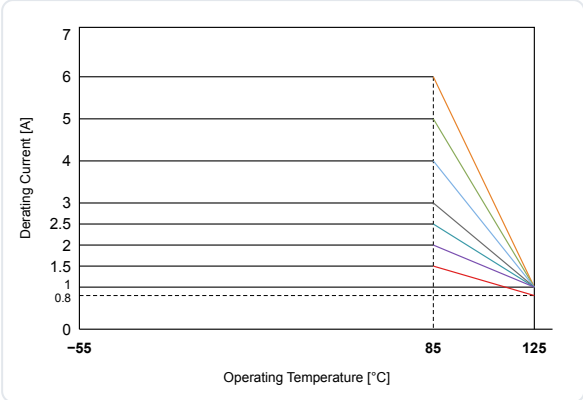
(1) If the parcel label on product is "Unitary lead free" that indicate the products in accord with ROHS appointed requests.

(2) This product specification guarantees the quality of our product as a single unit, Please make sure that your product has been evaluated and confirmed against your specifications when our product is mounted to your product.

(3) We can't warrant against failure caused by any use of our product that deviates from the intended use as described in this product specification.

Remark

When Operating temperatures exceed +85°C,derating of current is necessary for chip ferrite beads for which rated current is1A and over. Please apply the derating curve shown in chart according to the operating temperature.

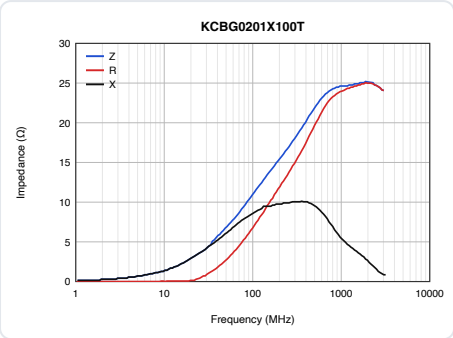


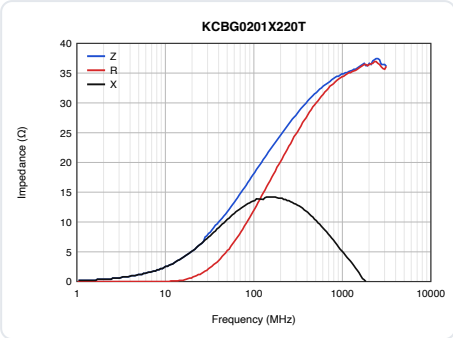
Revision of resume

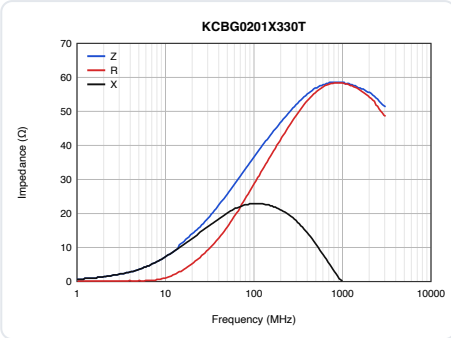
Version	Date	Description
18.01	2018-5-21	Initial issue
20.01	2020-5-28	Modified the bending strength test method and requirements of reliability test items.
21.01	2021-5-6	Modified the reliability test item of bending strength test method, changed the temperature cycling items into temperature shocking . Deleted the drop test item.
21.02	2021-11-8	Modified the working temperature range of reliability test items, modified the temperature conditions of low temperature resistance/high temperature resistance/temperature impact test. added the usage instructions of rated current derating
22.01	2022-3-28	Modified the electrical characteristics; modified the storage period.
A0	2024-05-16	Modified the version name to delete the welding, cleaning, and storage requirements
A1	2025-03-10	Add welding, cleaning, and storage requirements Remove the requirement for soldering rate in the reliability test for resistance to soldering heat. Update frequency curve Modify the naming of reel sizes
A2	2025-05-08	Modify the reel dimensions guidelines Update KCBG0805U151T frequency curve
A3	2025-12-01	Rename 'Margin of Error' to 'Accuracy Range'; Corrected the P1 standards for 1608 and 2012 specification paper tapes . Update the disk label diagram

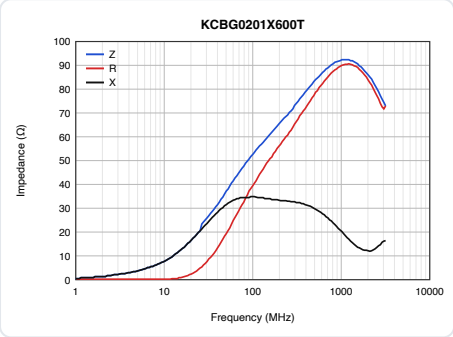
Schedule

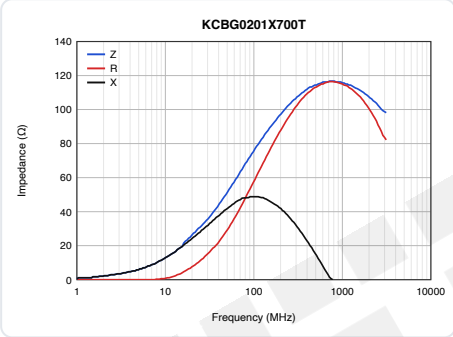
KCBG0201 Type

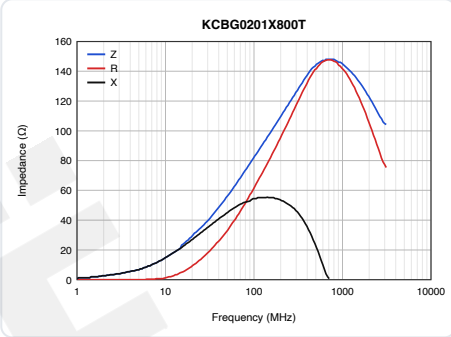


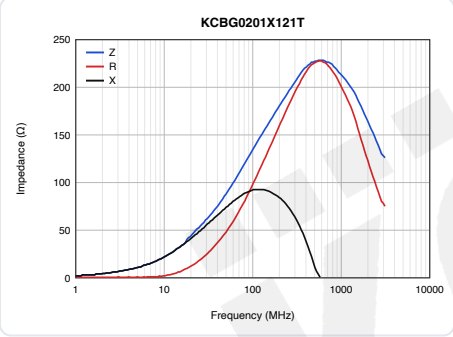


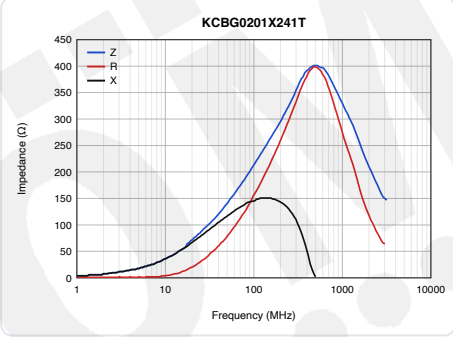


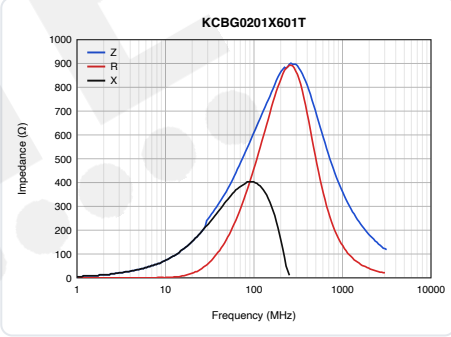


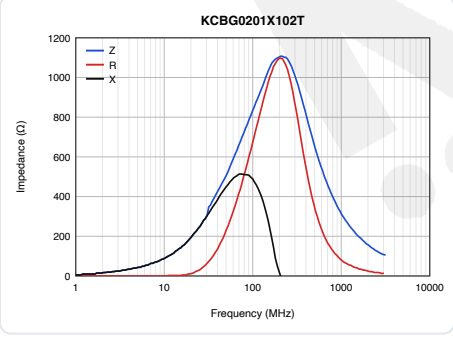




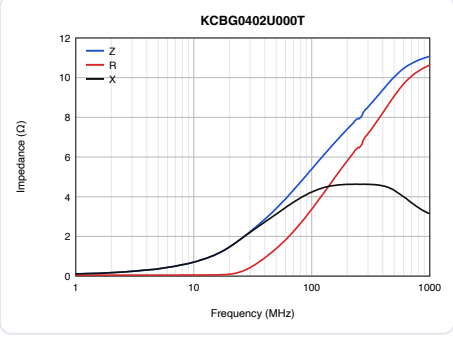


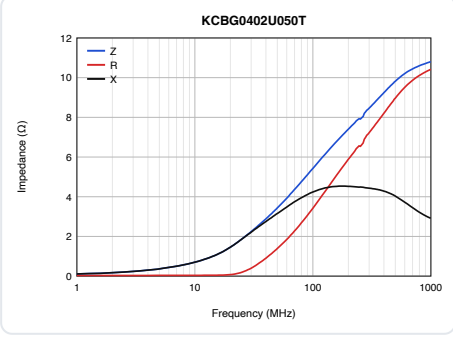


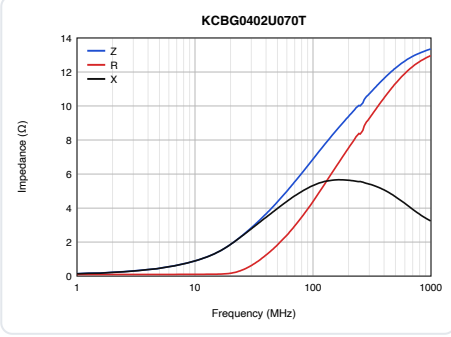


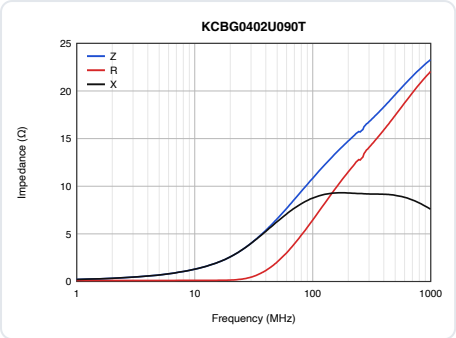


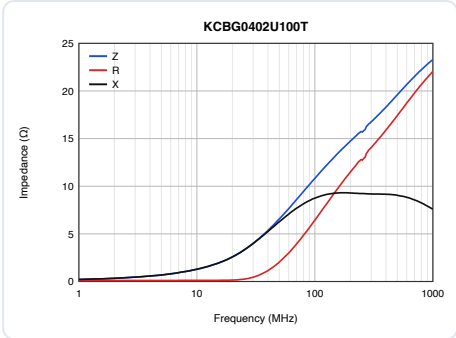
KCBG0402 Type

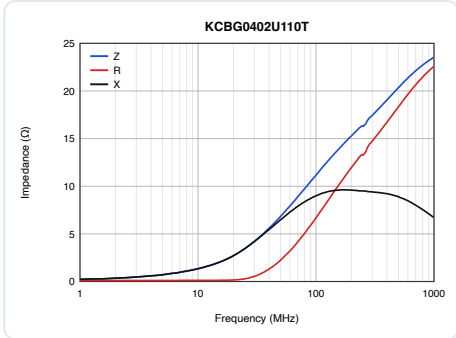


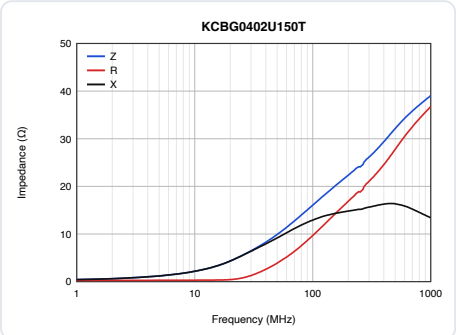


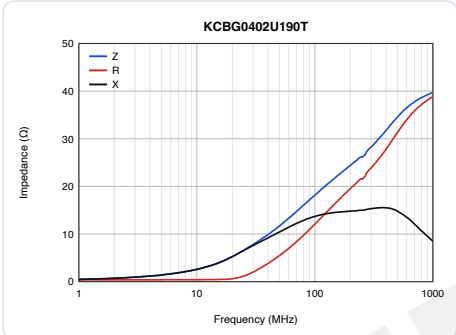


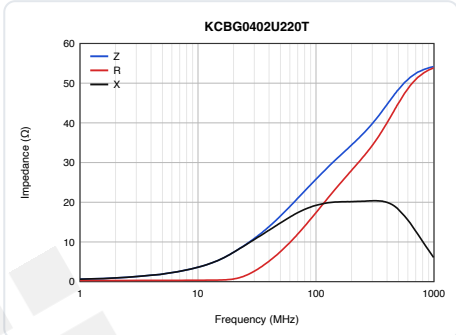

KCBG0402U090T
Z
R
X
Impedance (Ω)
Frequency (MHz)

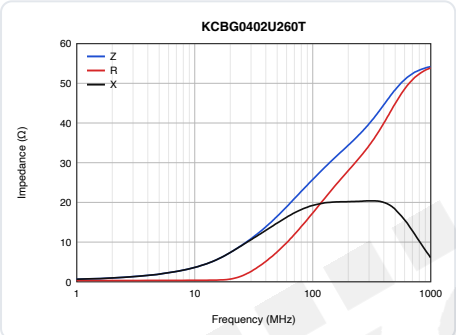

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Z
R
X
Impedance (Ω)
Frequency (MHz)

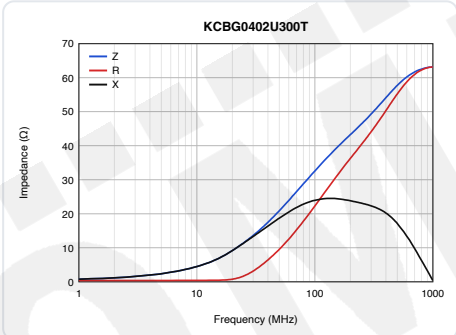

KCBG0402U110T
Z
R
X
Impedance (Ω)
Frequency (MHz)

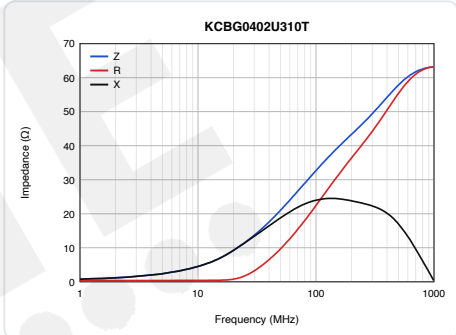

KCBG0402U150T
Z
R
X
Impedance (Ω)
Frequency (MHz)

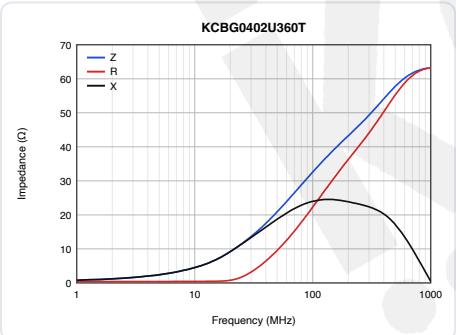

KCBG0402U190T
Z
R
X
Impedance (Ω)
Frequency (MHz)

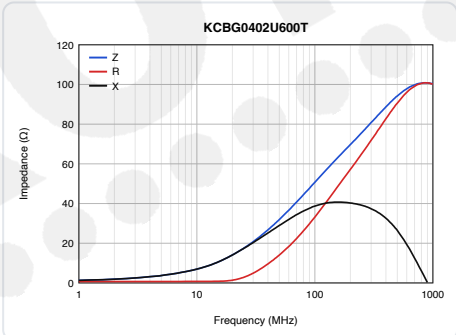

KCBG0402U220T
Z
R
X
Impedance (Ω)
Frequency (MHz)

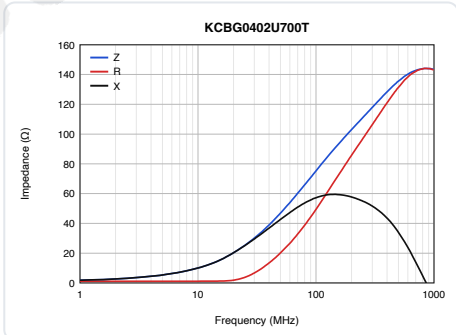

KCBG0402U260T
Z
R
X
Impedance (Ω)
Frequency (MHz)

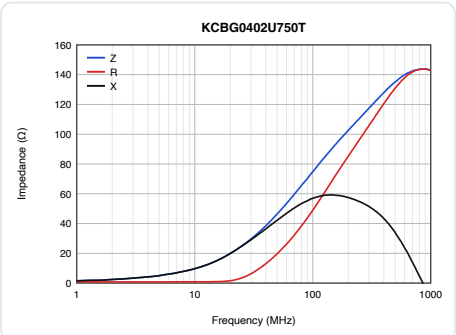

KCBG0402U300T
Z
R
X
Impedance (Ω)
Frequency (MHz)

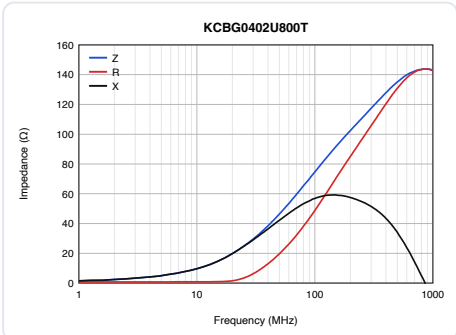

KCBG0402U310T
Z
R
X
Impedance (Ω)
Frequency (MHz)

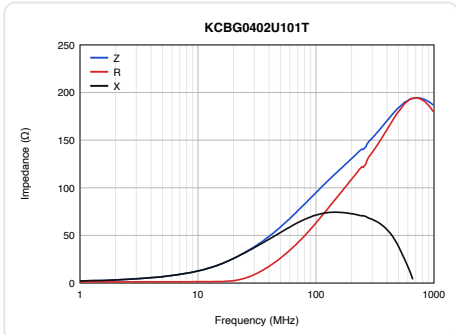

KCBG0402U360T
Z
R
X
Impedance (Ω)
Frequency (MHz)


KCBG0402U600T
Z
R
X
Impedance (Ω)
Frequency (MHz)

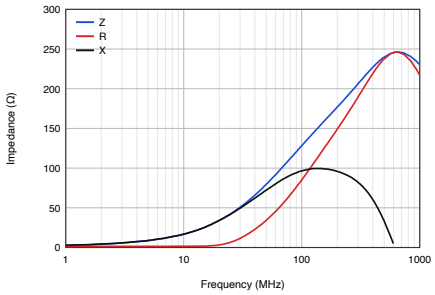

KCBG0402U700T
Z
R
X
Impedance (Ω)
Frequency (MHz)


KCBG0402U750T
Z
R
X
Impedance (Ω)
Frequency (MHz)

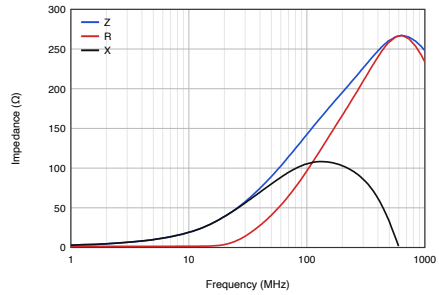

KCBG0402U800T
Z
R
X
Impedance (Ω)
Frequency (MHz)


KCBG0402U101T
Z
R
X
Impedance (Ω)
Frequency (MHz)

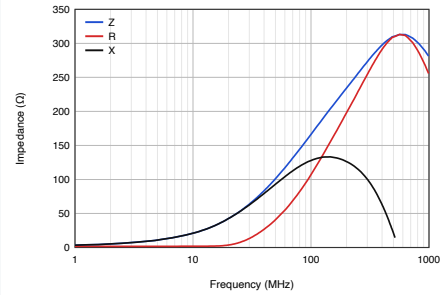
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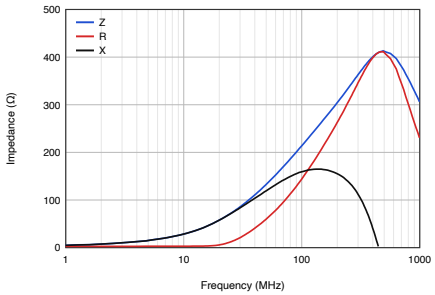
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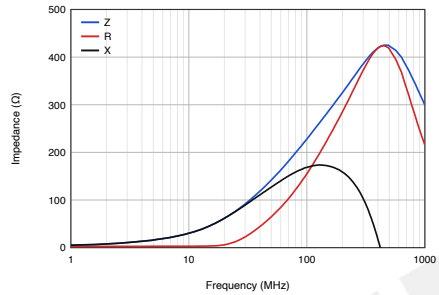
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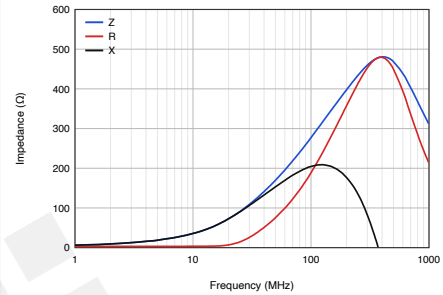
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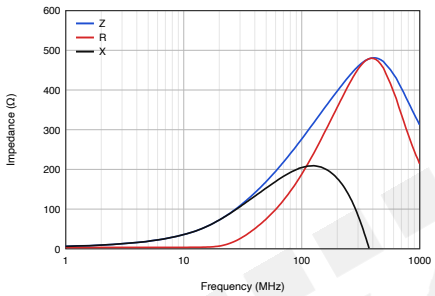
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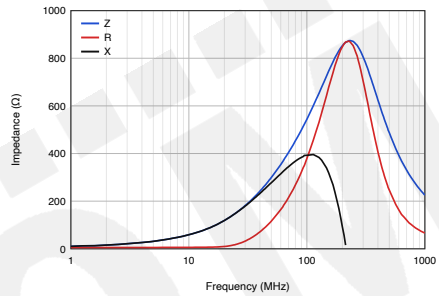
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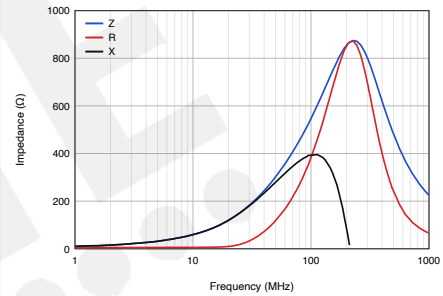
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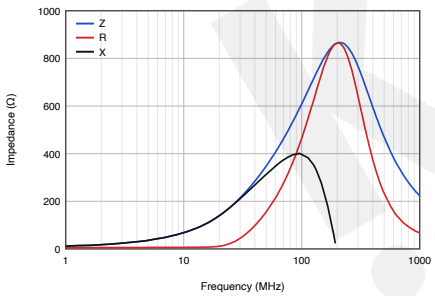
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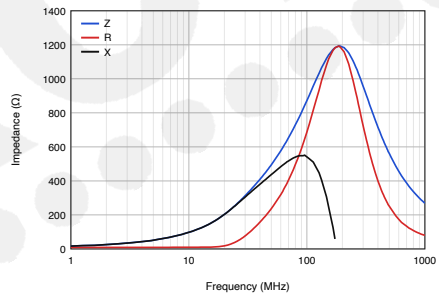
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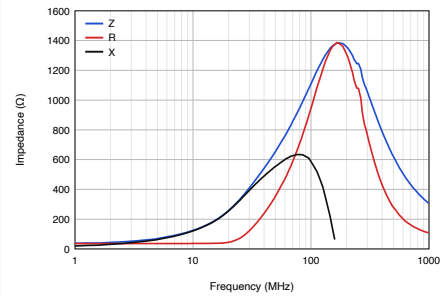
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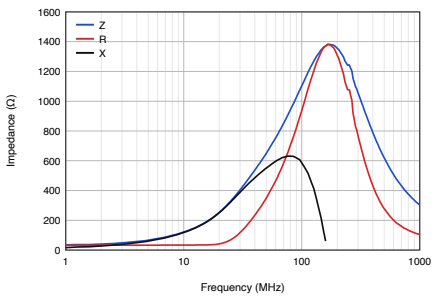
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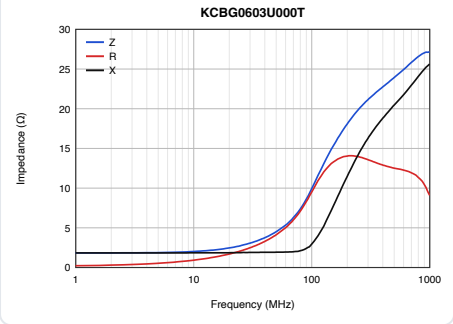
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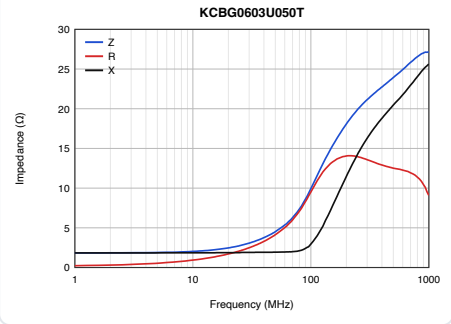


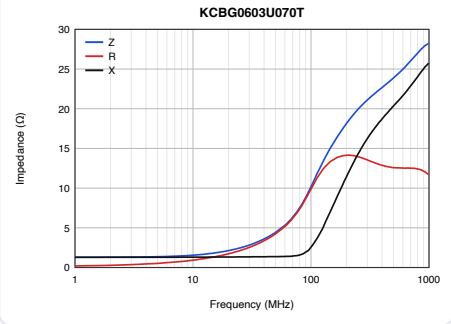
KCBG0402U122T

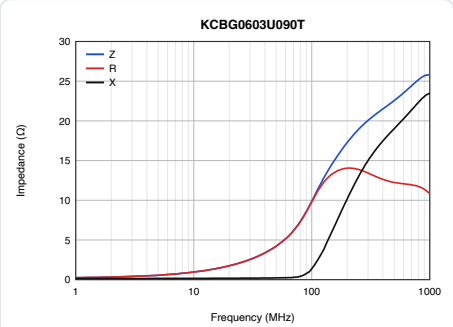


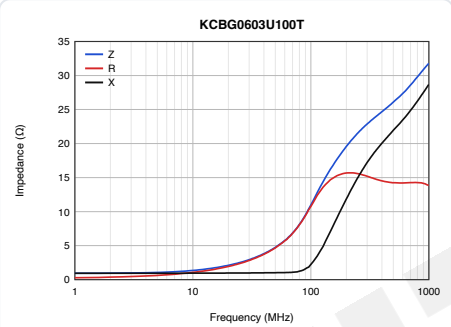
KCBG0603 Type

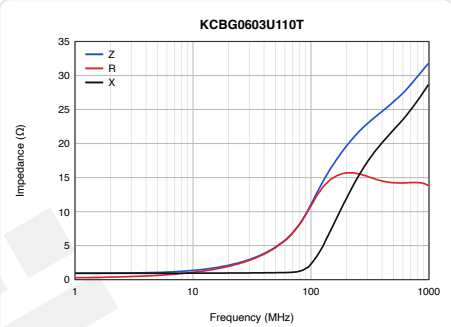


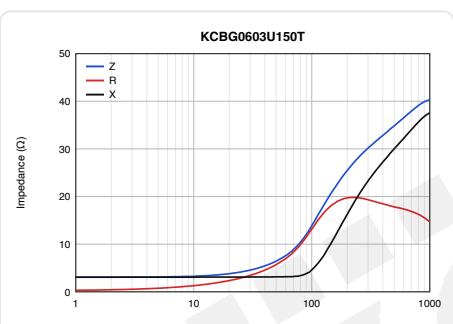


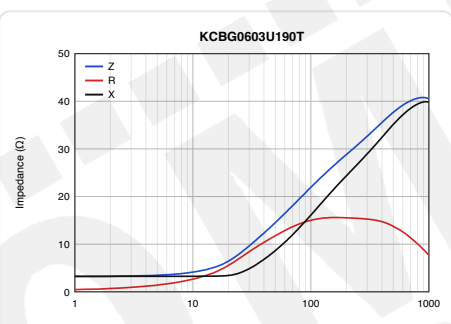


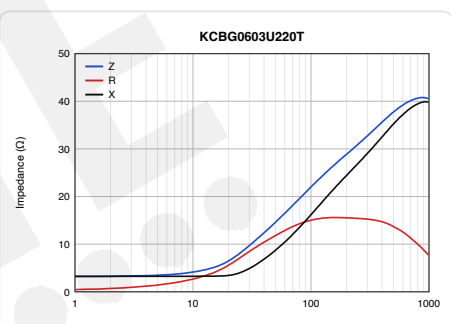


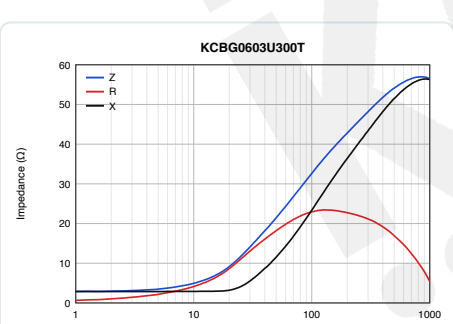


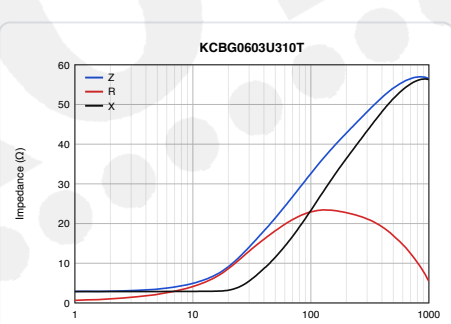


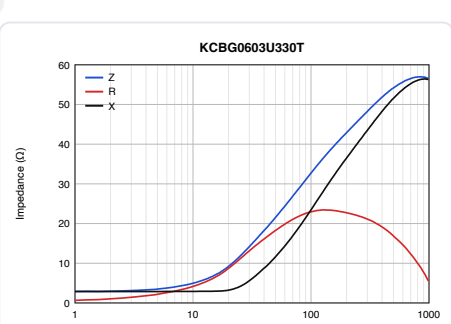


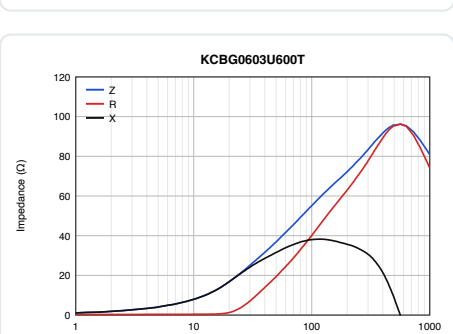


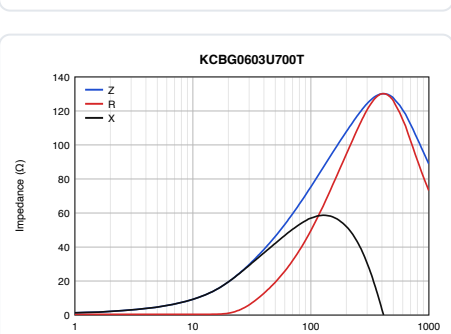


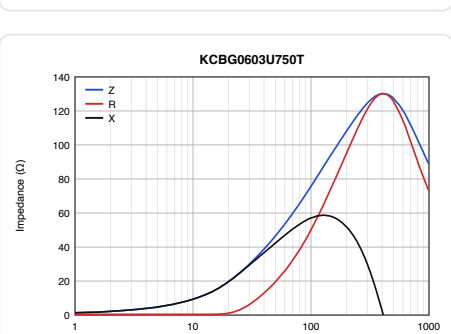


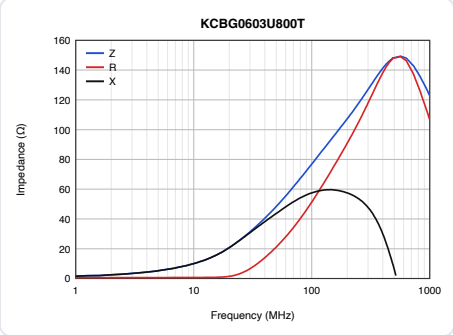


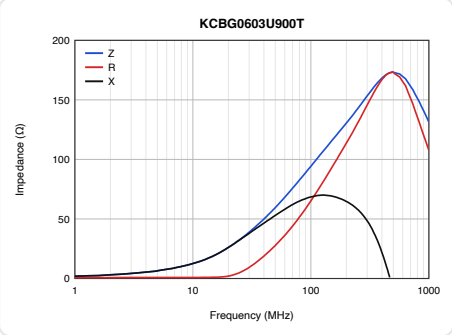


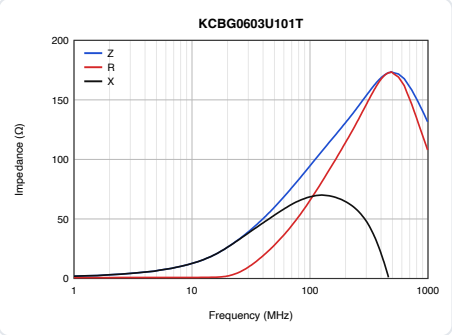


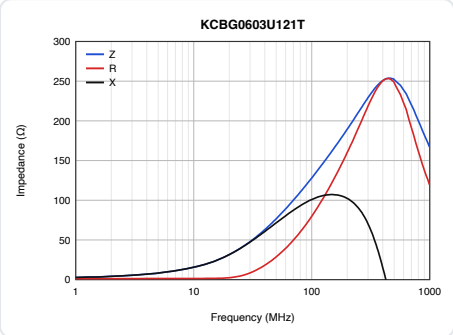


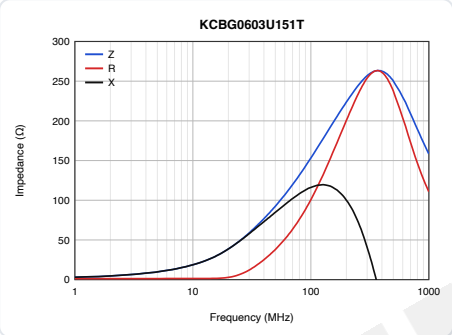


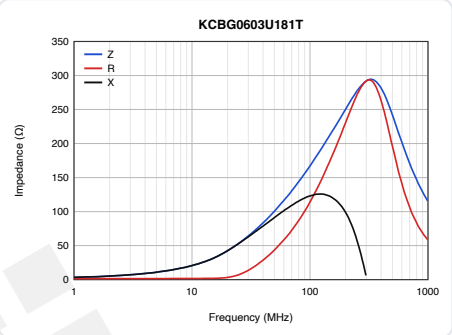

KCBG0603U800T
Z
R
X
Impedance (Ω)
Frequency (MHz)

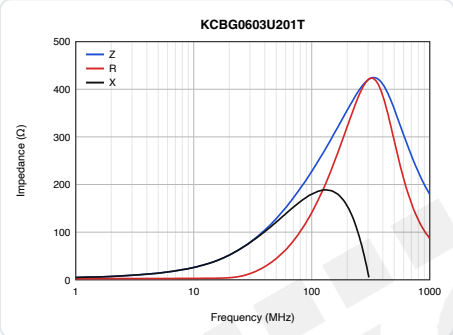

KCBG0603U900T
Z
R
X
Impedance (Ω)
Frequency (MHz)

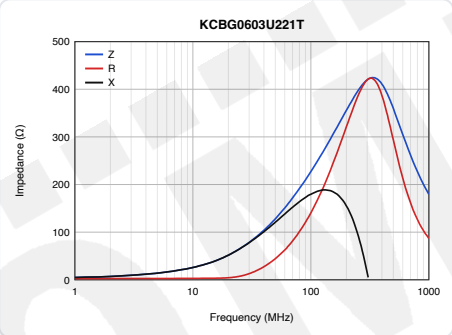

KCBG0603U101T
Z
R
X
Impedance (Ω)
Frequency (MHz)

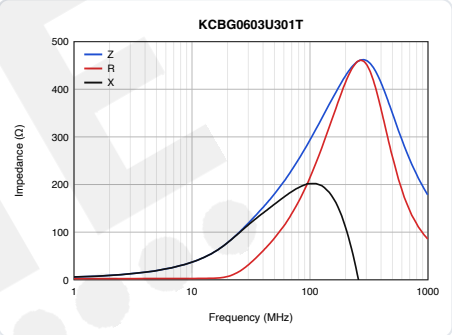

KCBG0603U121T
Z
R
X
Impedance (Ω)
Frequency (MHz)

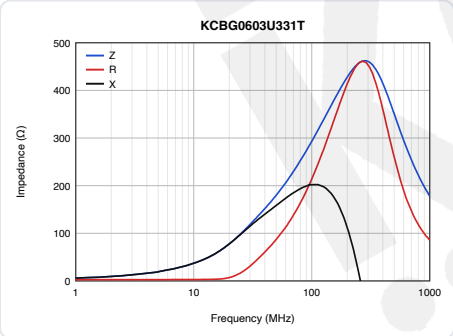

KCBG0603U151T
Z
R
X
Impedance (Ω)
Frequency (MHz)

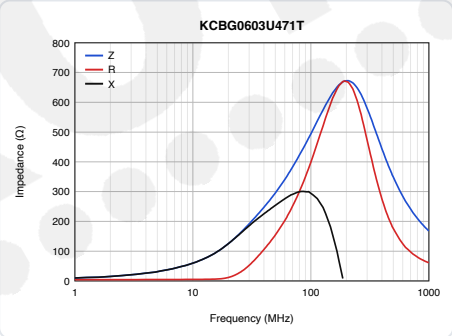

KCBG0603U181T
Z
R
X
Impedance (Ω)
Frequency (MHz)

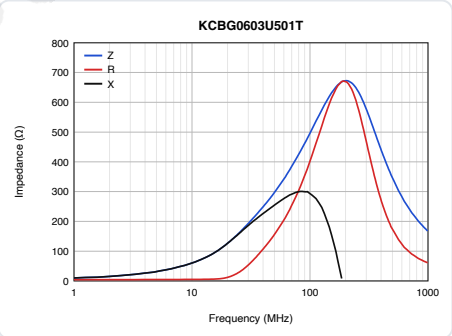

KCBG0603U201T
Z
R
X
Impedance (Ω)
Frequency (MHz)

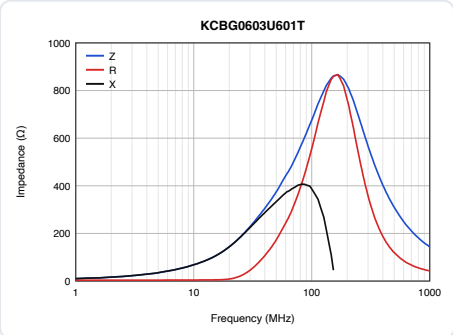

KCBG0603U221T
Z
R
X
Impedance (Ω)
Frequency (MHz)

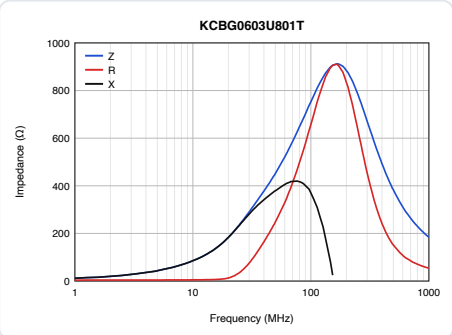

KCBG0603U301T
Z
R
X
Impedance (Ω)
Frequency (MHz)

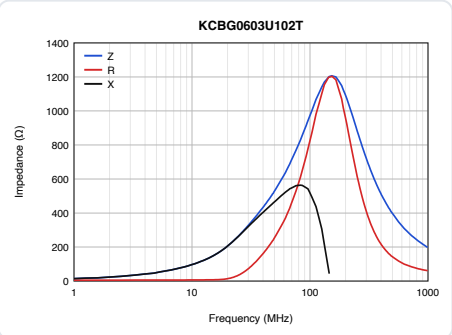

KCBG0603U331T
Z
R
X
Impedance (Ω)
Frequency (MHz)

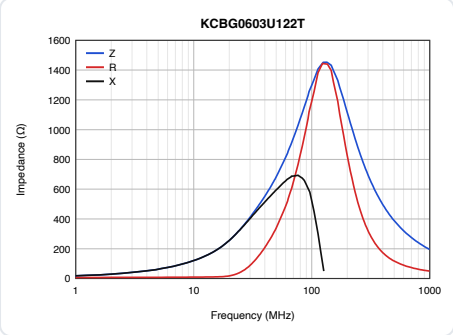

KCBG0603U471T
Z
R
X
Impedance (Ω)
Frequency (MHz)

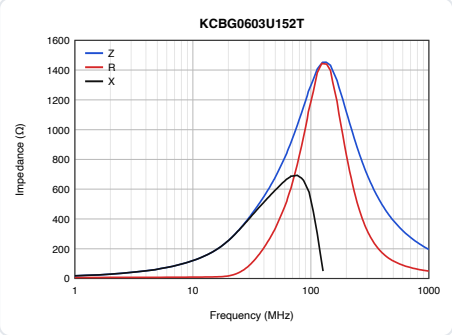

KCBG0603U501T
Z
R
X
Impedance (Ω)
Frequency (MHz)

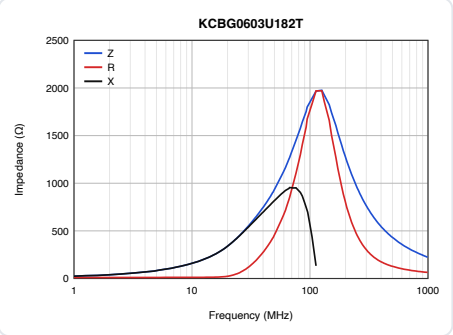

KCBG0603U601T
Z
R
X
Impedance (Ω)
Frequency (MHz)

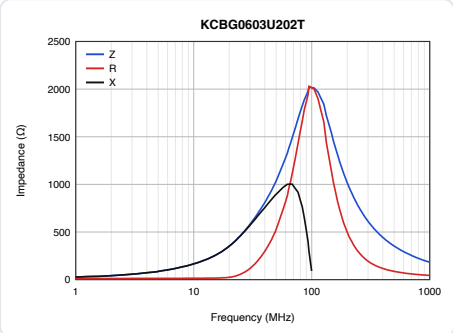

KCBG0603U801T
Z
R
X
Impedance (Ω)
Frequency (MHz)

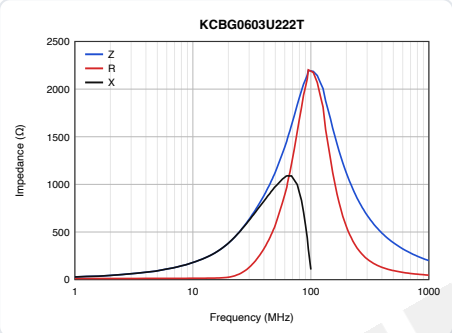

KCBG0603U102T
Z
R
X
Impedance (Ω)
Frequency (MHz)

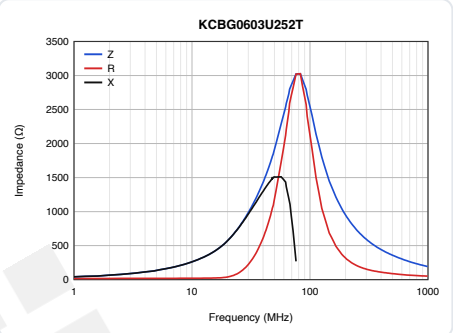




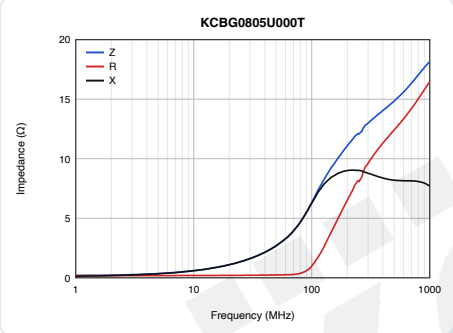


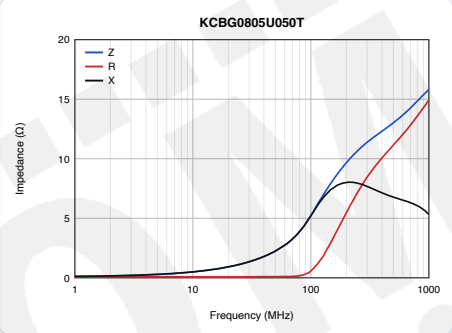


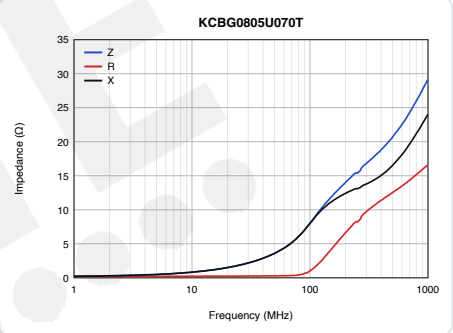


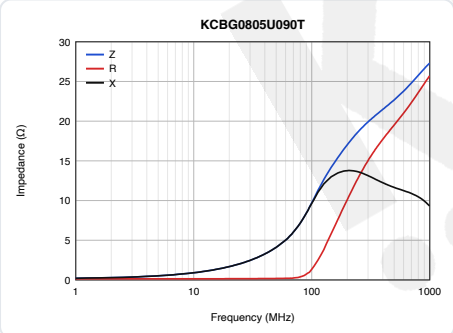


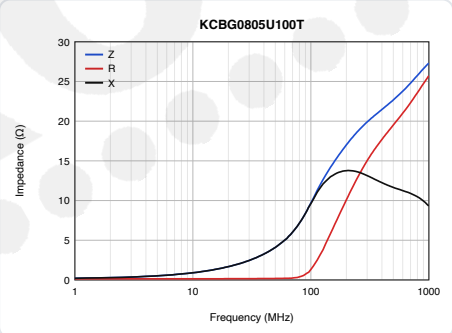
KCBG0805 Type

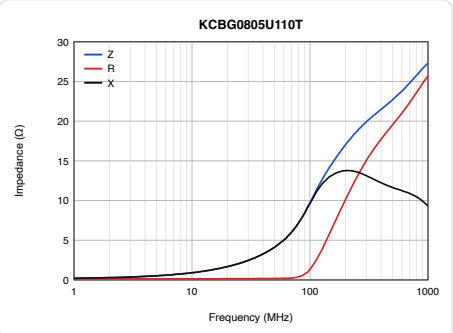


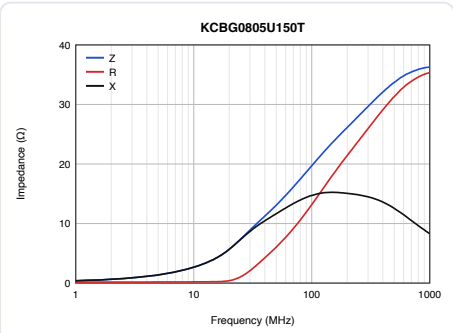


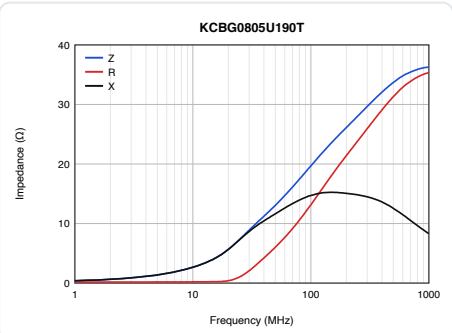


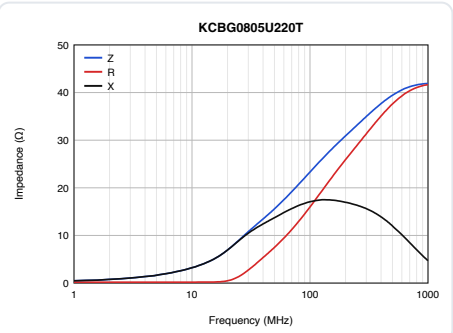


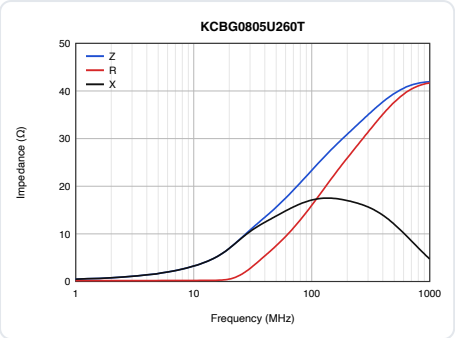


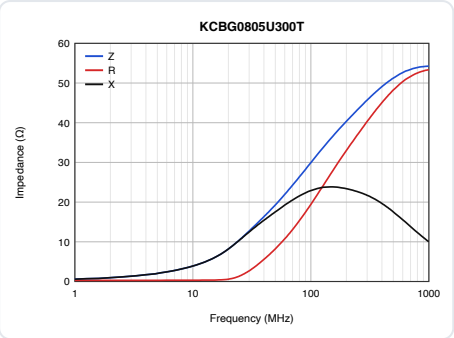


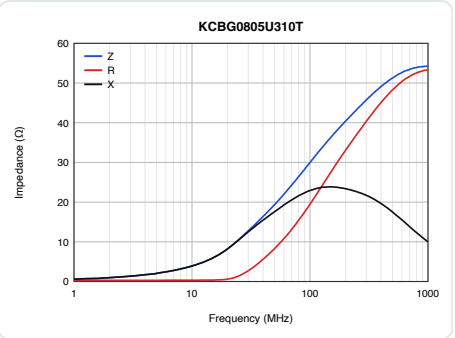


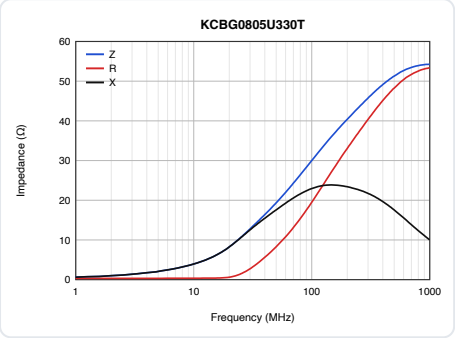


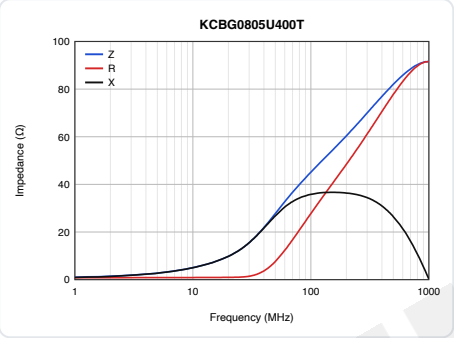


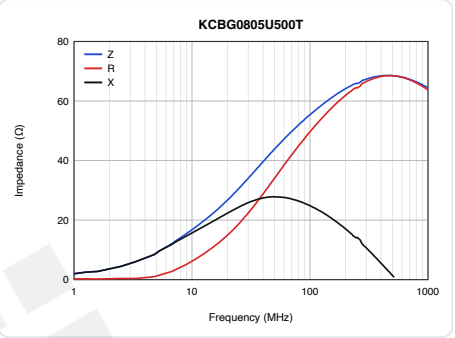

KCBG0805U260T
Z
R
X
Impedance (Ω)
Frequency (MHz)

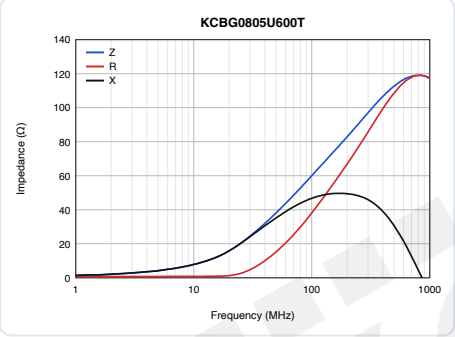

KCBG0805U300T
Z
R
X
Impedance (Ω)
Frequency (MHz)

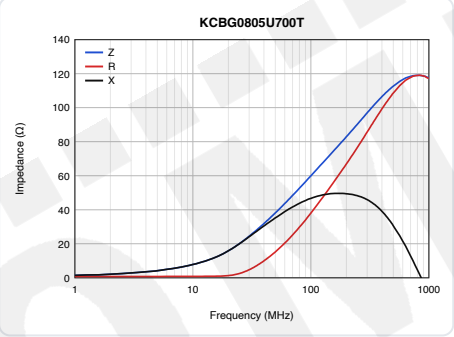

KCBG0805U310T
Z
R
X
Impedance (Ω)
Frequency (MHz)

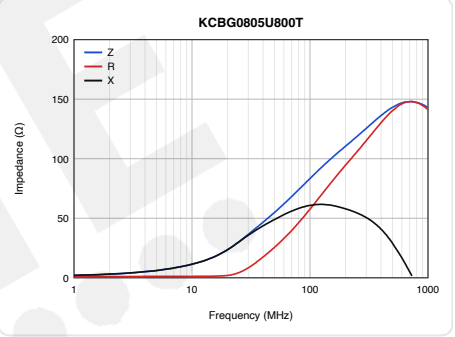

KCBG0805U330T
Z
R
X
Impedance (Ω)
Frequency (MHz)

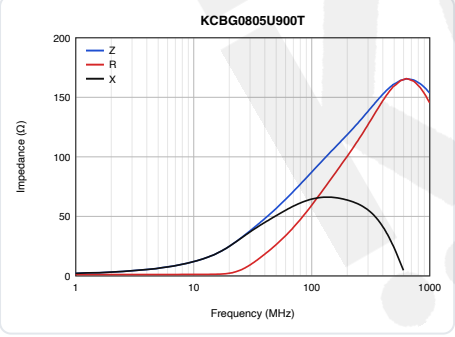

KCBG0805U400T
Z
R
X
Impedance (Ω)
Frequency (MHz)

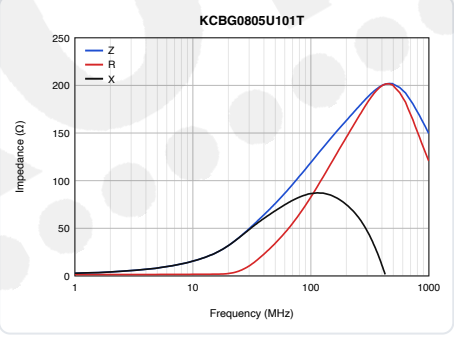

KCBG0805U500T
Z
R
X
Impedance (Ω)
Frequency (MHz)

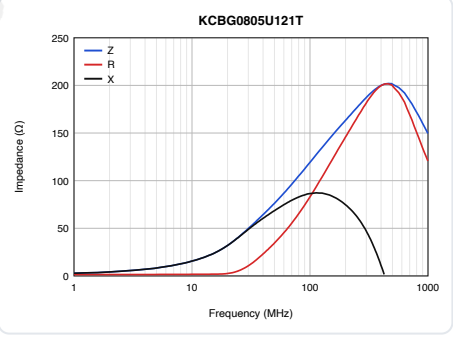

KCBG0805U600T
Z
R
X
Impedance (Ω)
Frequency (MHz)

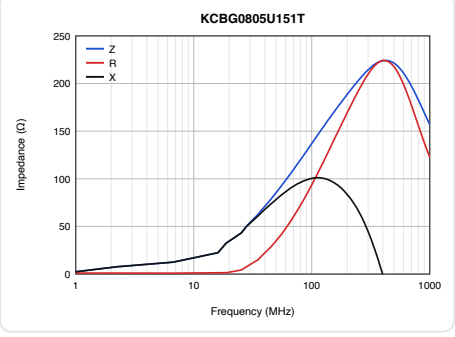

KCBG0805U700T
Z
R
X
Impedance (Ω)
Frequency (MHz)

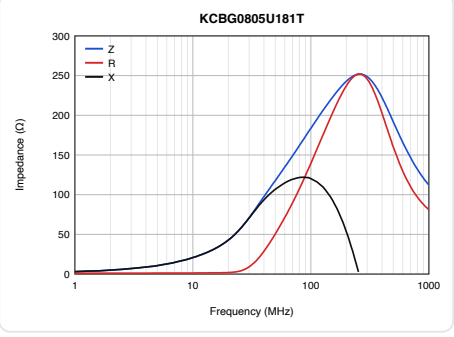

KCBG0805U800T
Z
R
X
Impedance (Ω)
Frequency (MHz)

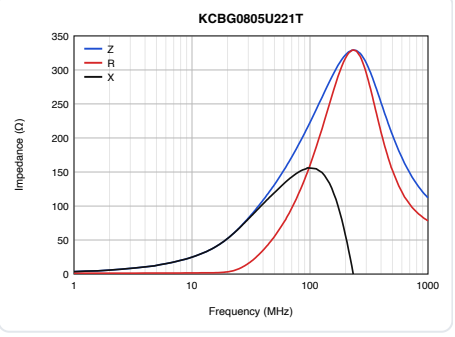

KCBG0805U900T
Z
R
X
Impedance (Ω)
Frequency (MHz)


KCBG0805U101T
Z
R
X
Impedance (Ω)
Frequency (MHz)

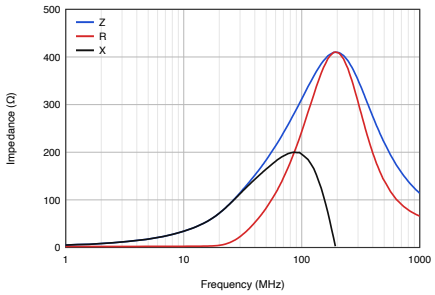

KCBG0805U121T
Z
R
X
Impedance (Ω)
Frequency (MHz)


KCBG0805U151T
Z
R
X
Impedance (Ω)
Frequency (MHz)

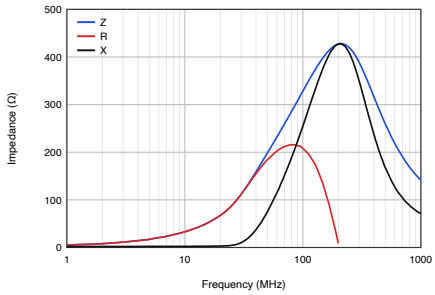

KCBG0805U181T
Z
R
X
Impedance (Ω)
Frequency (MHz)


KCBG0805U221T
Z
R
X
Impedance (Ω)
Frequency (MHz)

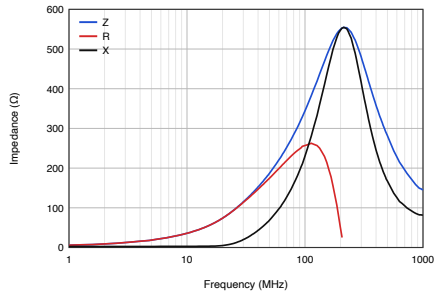
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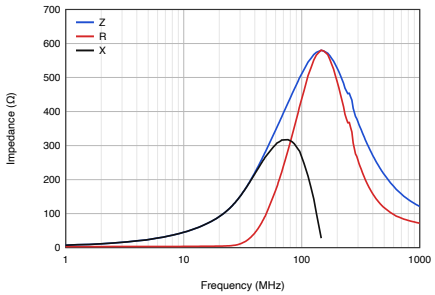
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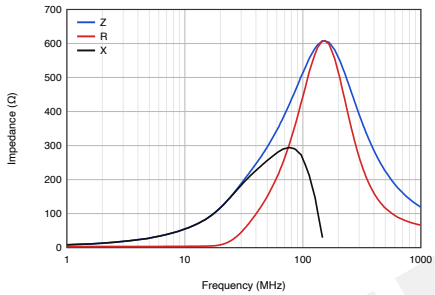
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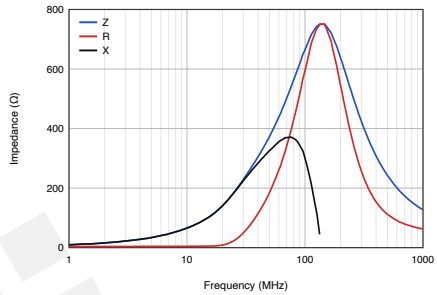
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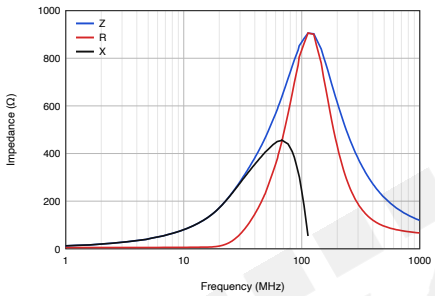
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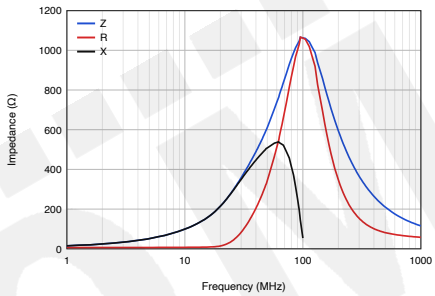
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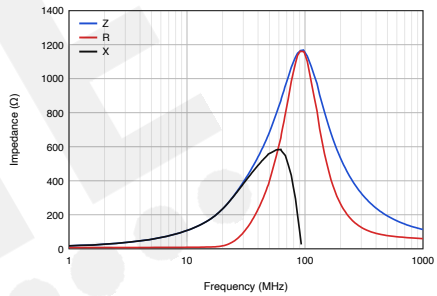
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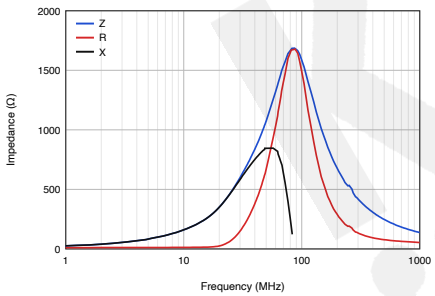
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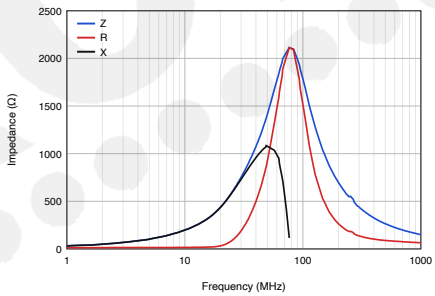
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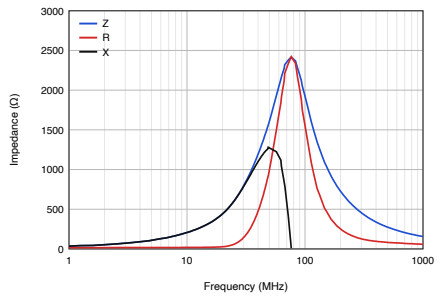
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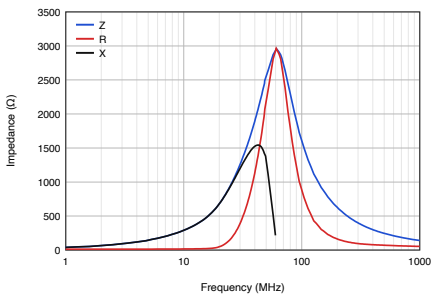
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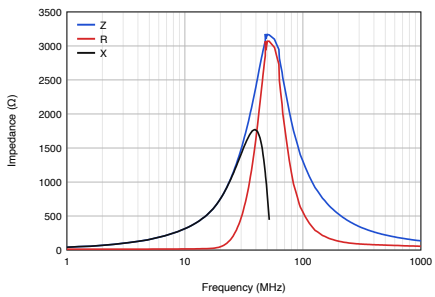
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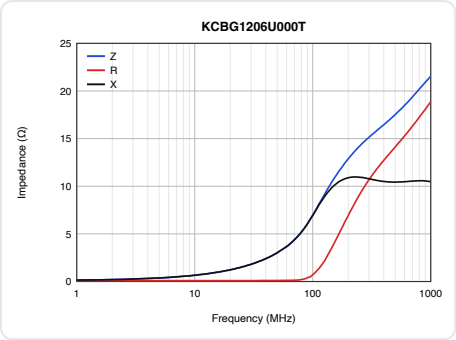
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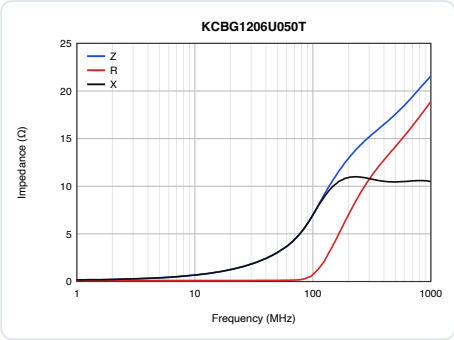


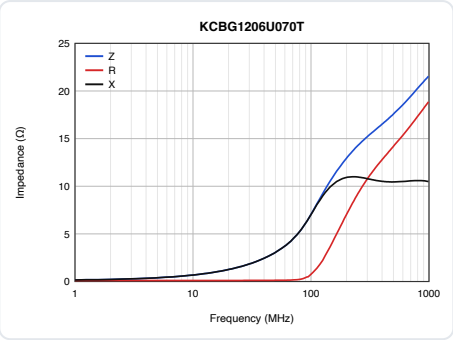
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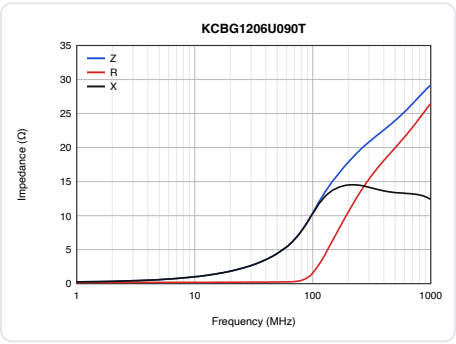


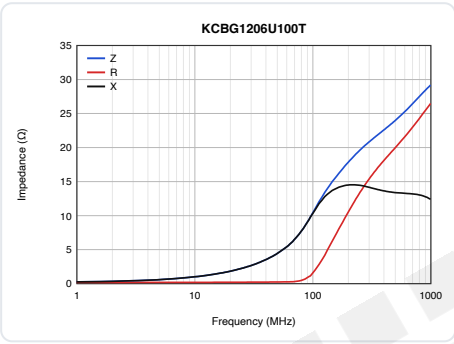
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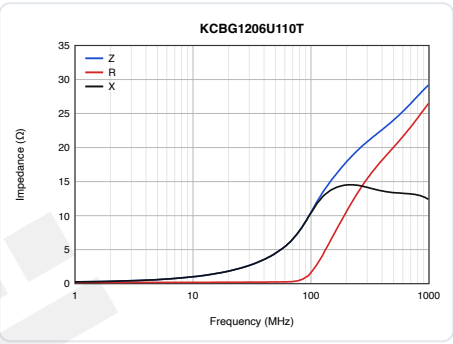


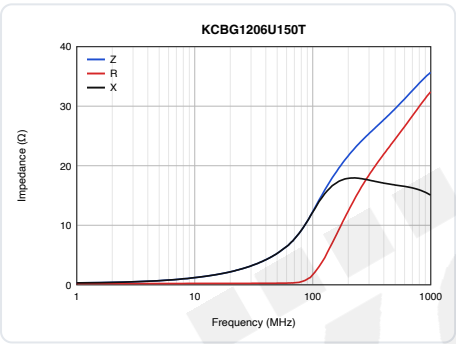


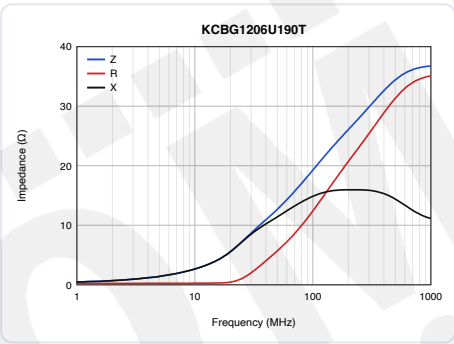


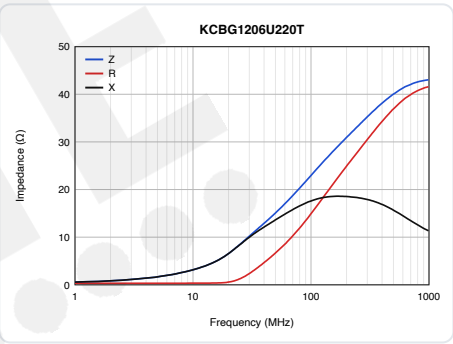


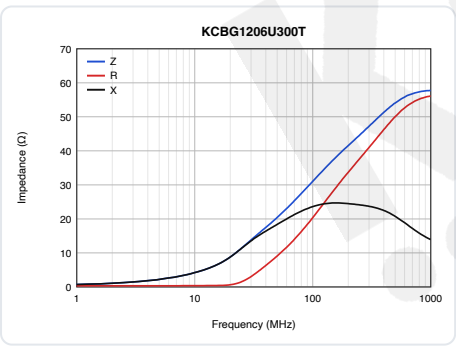


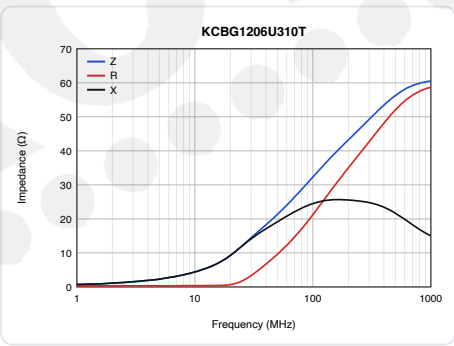


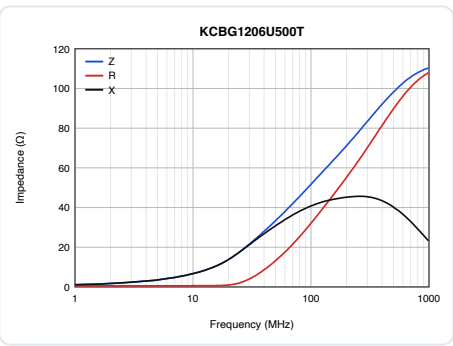


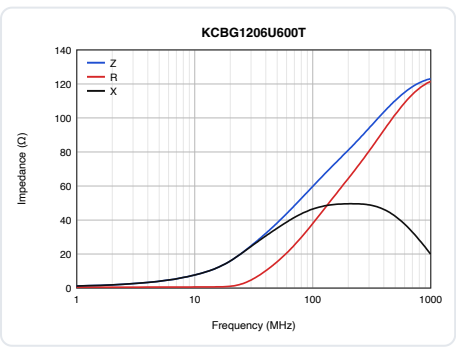


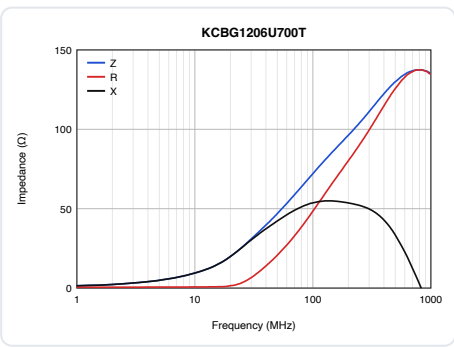


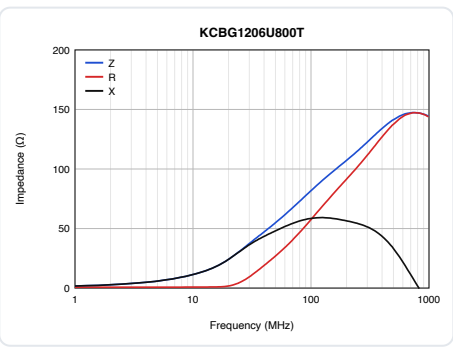




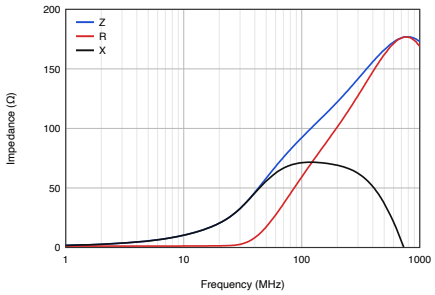




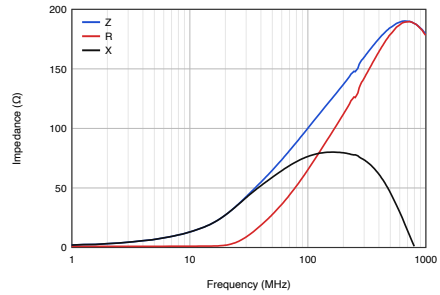




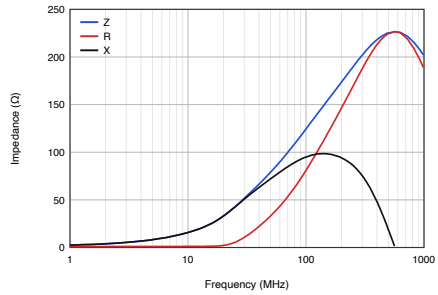
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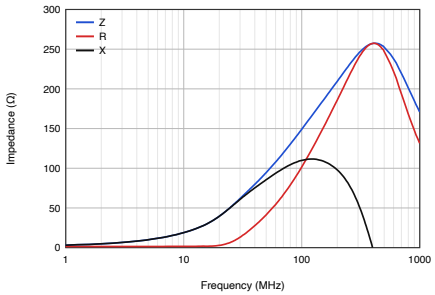
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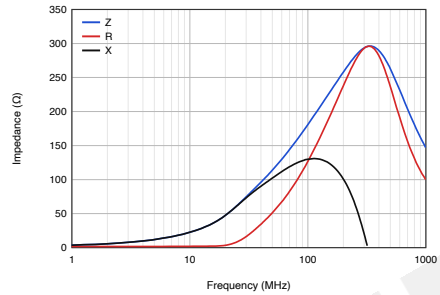
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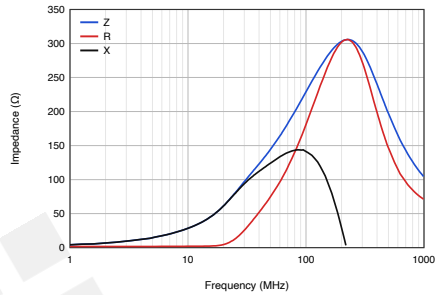
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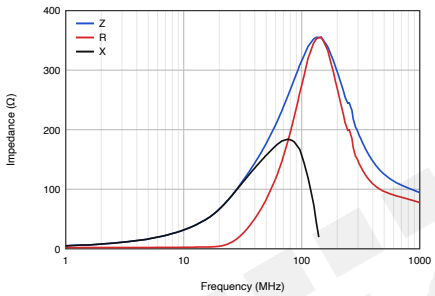
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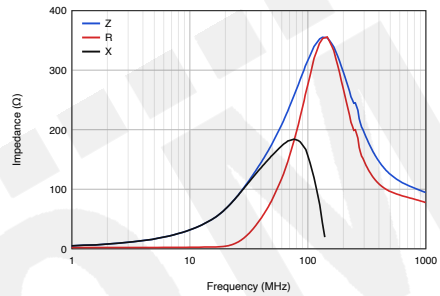
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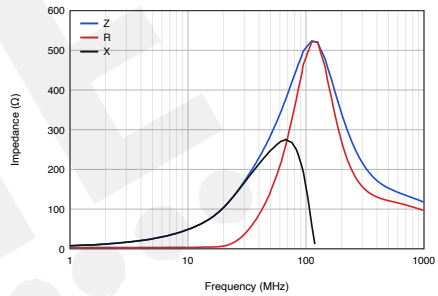
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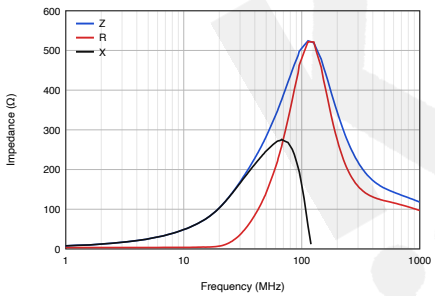
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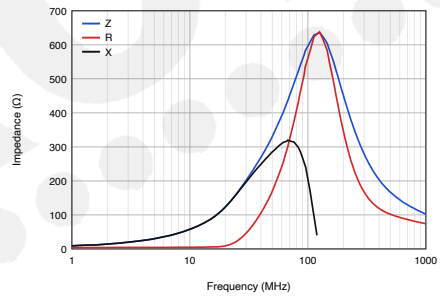
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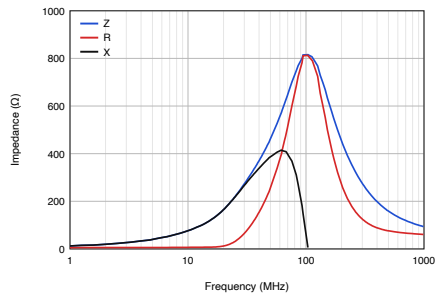
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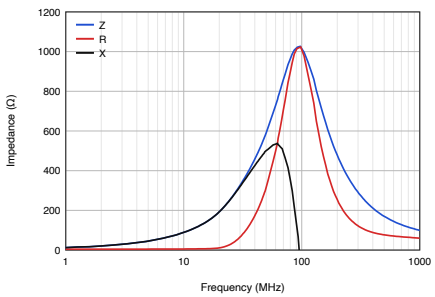
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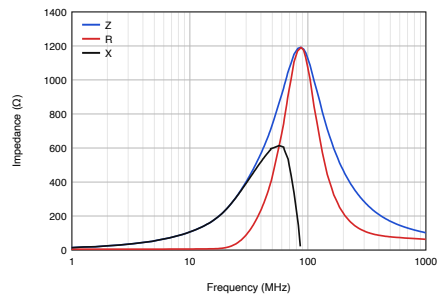
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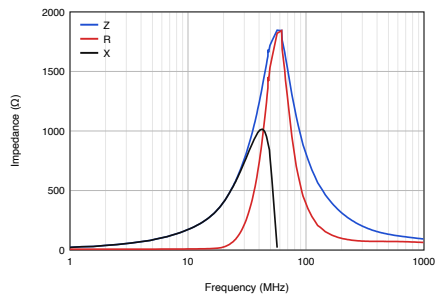
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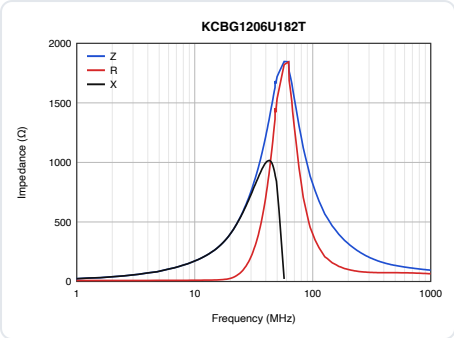


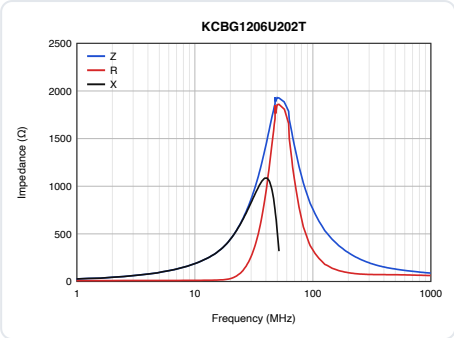
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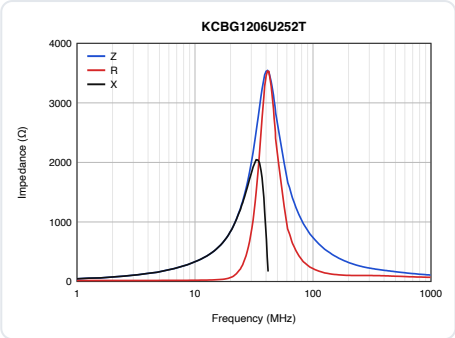


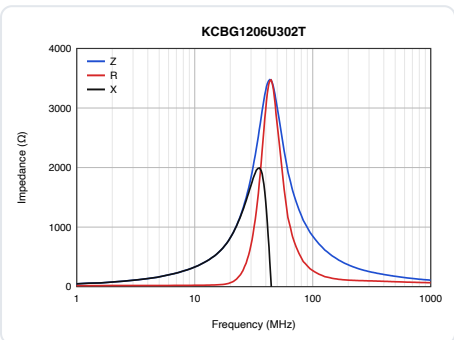
KCBG1206U152T




KCBG1206U182T
Z
R
X
Impedance (Ω)
2000
1500
1000
500
0
1
10
100
1000
Frequency (MHz)


KCBG1206U202T
Z
R
X
Impedance (Ω)
2500
2000
1500
1000
500
0
1
10
100
1000
Frequency (MHz)


KCBG1206U252T
Z
R
X
Impedance (Ω)
4000
3000
2000
1000
0
1
10
100
1000
Frequency (MHz)


KCBG1206U302T
Z
R
X
Impedance (Ω)
4000
3000
2000
1000
0
1
10
100
1000
Frequency (MHz)