



Chip Ferrite Bead

KLB Series

Features

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- S.M.D Type & suitable for reflow and wave soldering.
- Available in various sizes.
- Excellent solderability and heat resistance.
- High reliability
- WEffectively filtering capability over a wide range of frequency.

Applications

Filtering between analog and digital circuitry, clock generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation, power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry, high frequency EMI prevention of computers, printers, VCRs, TVs and portable telephones.

Product Identification

KLB 0603 G 18 1 S A
 (1) (2) (3) (4) (5) (6) (7)

- (1) Series name
- (2) Size code
- (3) Rated Current
- (4) Impedance(Ω)/ $\pm 25\%$
- (5) Fixed Decimal Point
- (6) Product Type
- (7) A : Lead Free & Rohs Compliance

- Rated Current Chart (mA)

A	B	C	D	E	F	G	H	I	J	K
50	80	100	150	200	300	400	500	600	700	800
L	M	N	P	Q	R	U	W	X	Y	
1000	1500	2000	2500	3000	4000	5000	6000	8000	10000	

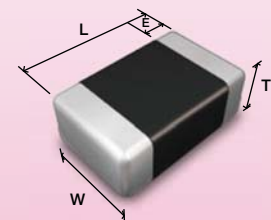
Product Dimensions

Unit:mm

Size	0402	0603	0805
L	1.00 \pm 0.10	1.60 \pm 0.15	2.00 \pm 0.20
W	0.50 \pm 0.10	0.80 \pm 0.15	1.25 \pm 0.20
T	0.50 \pm 0.10	0.80 \pm 0.15	0.90 \pm 0.20
E	0.25 \pm 0.10	0.30 \pm 0.20	0.50 \pm 0.30

Unit:mm

Size	1206	1210	1806	1812
L	3.20 \pm 0.20	3.20 \pm 0.20	4.50 \pm 0.25	4.50 \pm 0.25
W	1.60 \pm 0.20	2.50 \pm 0.20	1.60 \pm 0.20	3.20 \pm 0.25
T	1.10 \pm 0.20	1.30 \pm 0.20	1.60 \pm 0.20	1.50 \pm 0.25
E	0.50 \pm 0.30	0.50 \pm 0.30	0.60 \pm 0.40	0.60 \pm 0.40





Specifications

Part Number	Impedance +/-25% (Ω)	@ Freq. (MHz)	DCR (Ω) Max	Rated Current (mA)
0402				
KLB0402□200SA	20	100	0.20	300
KLB0402□300SA	30	100	0.25	300
KLB0402□400SA	40	100	0.30	300
KLB0402□600SA	60	100	0.35	300
KLB0402□700SA	70	100	0.35	300
KLB0402□121SA	120	100	0.40	300
KLB0402□241SA	240	100	0.70	200
KLB0402□301SA	300	100	0.80	200
KLB0402□601SA	600	100	1.00	200
0603				
KLB0603□100SA	10	100	0.05	600
KLB0603□220SA	22	100	0.05	600
KLB0603□300SA	30	100	0.08	600
KLB0603□400SA	40	100	0.10	600
KLB0603□600SA	60	100	0.10	600
KLB0603□680SA	68	100	0.10	600
KLB0603□700SA	70	100	0.10	600
KLB0603□800SA	80	100	0.10	600
KLB0603□101SA	100	100	0.15	600
KLB0603□121SA	120	100	0.15	600
KLB0603□181SA	180	100	0.30	300
KLB0603□221SA	220	100	0.30	300
KLB0603□301SA	300	100	0.35	300
KLB0603□451SA	450	100	0.40	300
KLB0603□471SA	470	100	0.40	300
KLB0603□601SA	600	100	0.45	200
KLB0603□751SA	750	100	0.60	100
KLB0603□102SA	1000	100	0.60	100
0805				
KLB0805□070SA	7	100	0.05	800
KLB0805□110SA	11	100	0.05	800
KLB0805□170SA	17	100	0.05	800
KLB0805□260SA	26	100	0.05	800
KLB0805□320SA	32	100	0.05	800
KLB0805□400SA	40	100	0.05	800
KLB0805□600SA	60	100	0.15	800
KLB0805□800SA	80	100	0.15	800
KLB0805□900SA	90	100	0.15	800
KLB0805□121SA	120	100	0.15	800
KLB0805□151SA	150	100	0.15	800

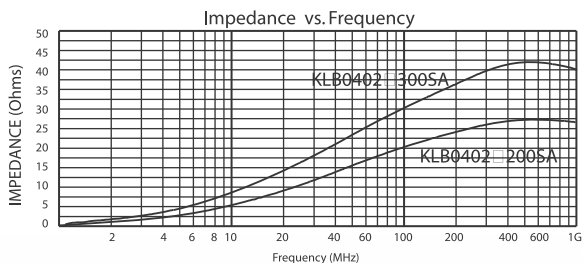
Part Number	Impedance +/-25% (Ω)	@ Freq. (MHz)	DCR (Ω) Max	Rated Current (mA)
0805				
KLB0805□181SA	180	100	0.20	500
KLB0805□221SA	220	100	0.20	500
KLB0805□301SA	300	100	0.20	500
KLB0805□401SA	400	100	0.30	500
KLB0805□601SA	600	100	0.30	500
KLB0805□701SA	700	100	0.35	300
KLB0805□102SA	1000	100	0.35	300
KLB0805□152SA	1500	100	0.40	300
KLB0805□202SA	2000	100	0.50	200
1206				
KLB1206□190SA	19	100	0.05	800
KLB1206□260SA	26	100	0.05	800
KLB1206□310SA	31	100	0.05	800
KLB1206□500SA	50	100	0.08	800
KLB1206□700SA	70	100	0.10	800
KLB1206□900SA	90	100	0.15	800
KLB1206□121SA	120	100	0.15	600
KLB1206□151SA	150	100	0.15	600
KLB1206□201SA	200	100	0.20	600
KLB1206□221SA	220	100	0.20	600
KLB1206□301SA	300	100	0.20	600
KLB1206□601SA	600	100	0.30	500
KLB1206□801SA	800	100	0.30	500
KLB1206□102SA	1000	100	0.40	500
KLB1206□122SA	1200	100	0.40	500
KLB1206□152SA	1500	50	0.50	200
KLB1206□202SA	2000	30	0.50	200
1210				
KLB1210□310SA	31	100	0.30	800
KLB1210□600SA	60	100	0.30	800
KLB1210□900SA	90	100	0.30	800
1806				
KLB1806□680SA	68	100	0.10	800
KLB1806□800SA	80	100	0.10	800
KLB1806□101SA	100	100	0.20	800
KLB1806□151SA	150	100	0.30	800
1812				
KLB1812□700SA	70	100	0.40	800
KLB1812□800SA	80	100	0.40	800
KLB1812□121SA	120	100	0.40	800

KLB

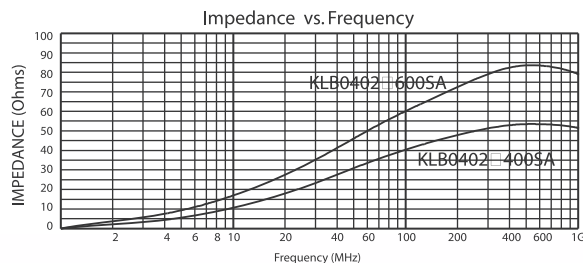


Impedance vs. Frequency

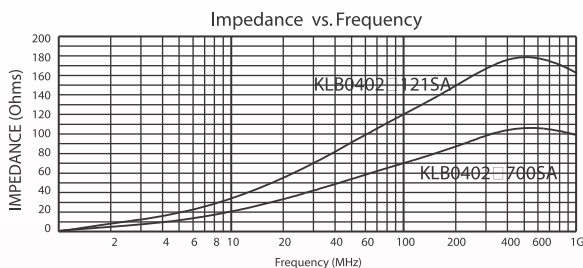
KLB0402 □ 200SA & 300SA



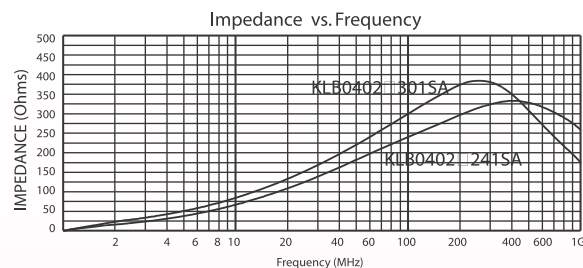
KLB0402 □ 400SA & 600SA



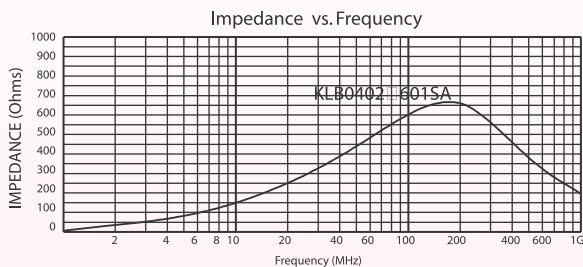
KLB0402 □ 700SA & 121SA



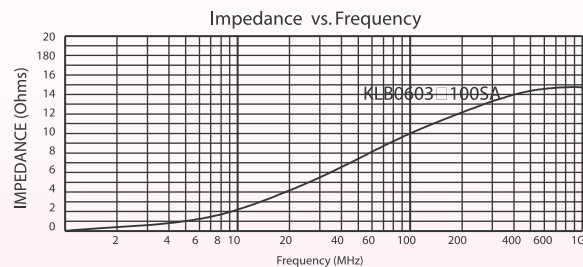
KLB0402 □ 241SA & 301SA



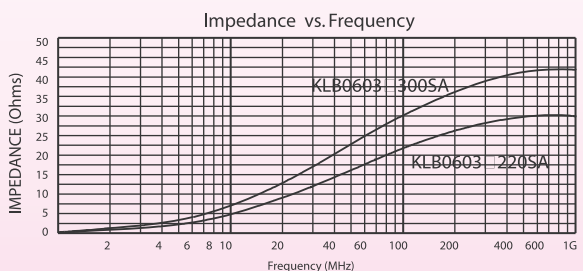
KLB0402 □ 601SA



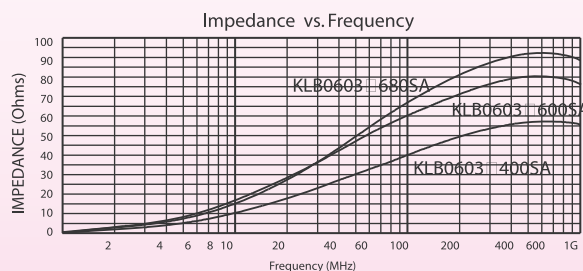
KLB0603 □ 100SA



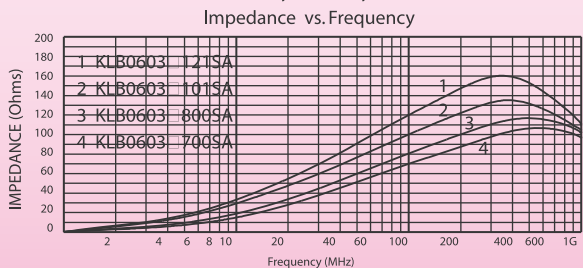
KLB0603 □ 220SA & 300SA



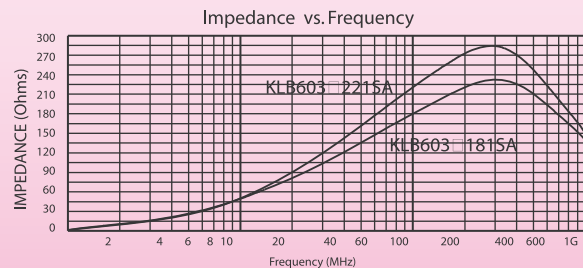
KLB0603 □ 400SA, 600SA & 680SA



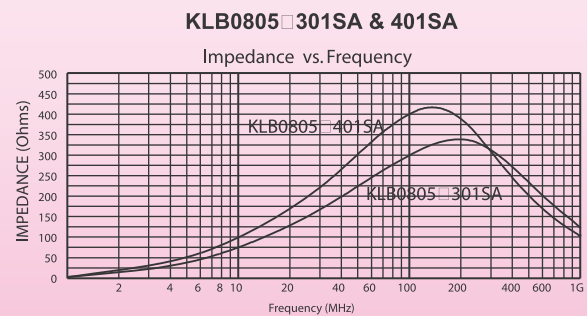
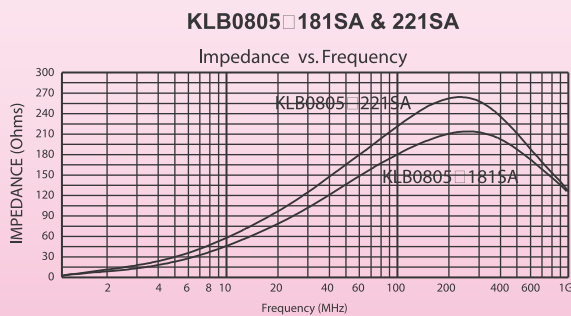
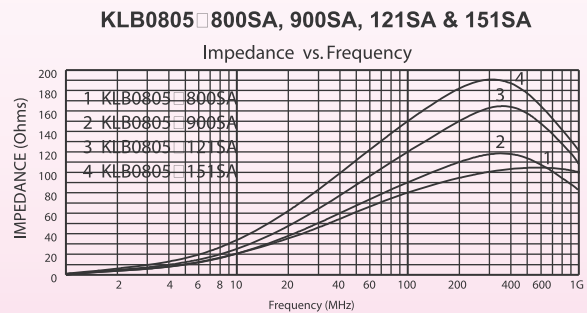
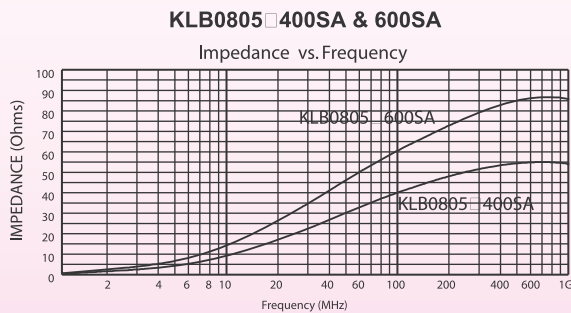
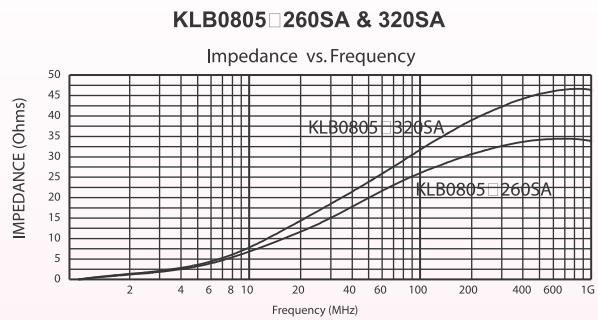
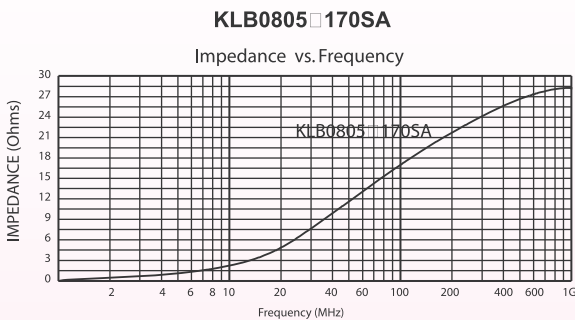
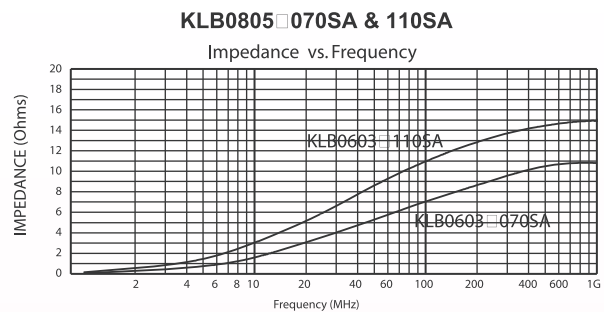
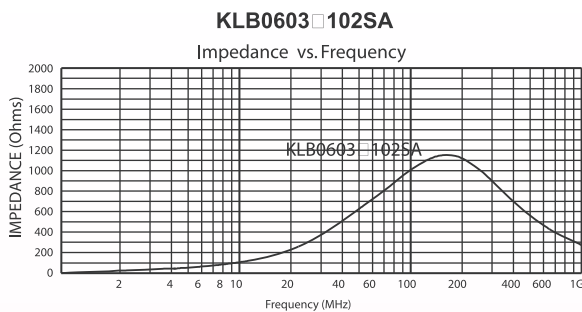
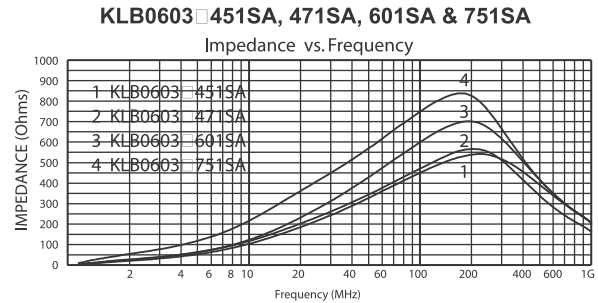
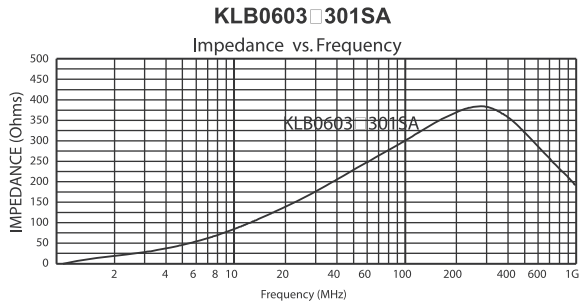
KLB0603 □ 700SA, 800SA, 101SA & 121SA



KLB0603 □ 181SA & 221SA



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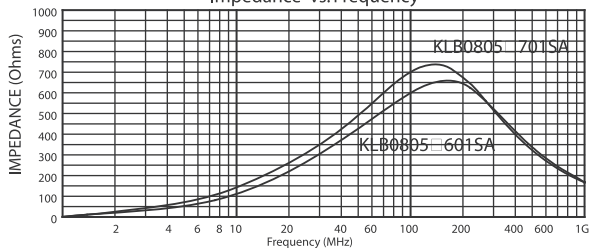
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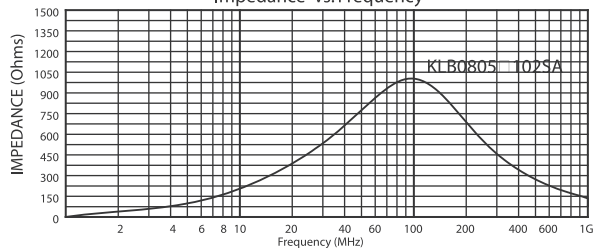
KLB0805 □ 601SA & 701SA

Impedance vs. Frequency



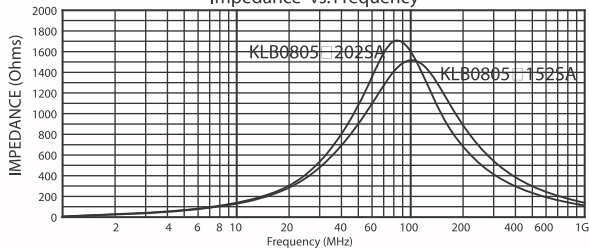
KLB0805 □ 102SA

Impedance vs. Frequency



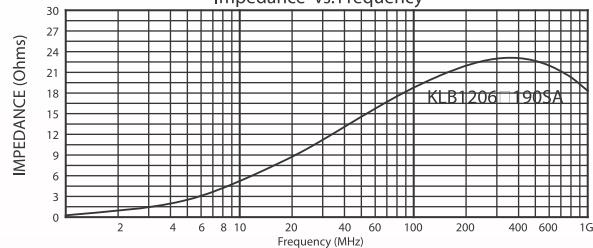
KLB0805 □ 152SA & 202SA

Impedance vs. Frequency



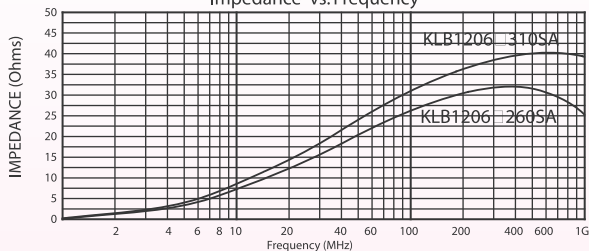
KLB1206 □ 190SA

Impedance vs. Frequency



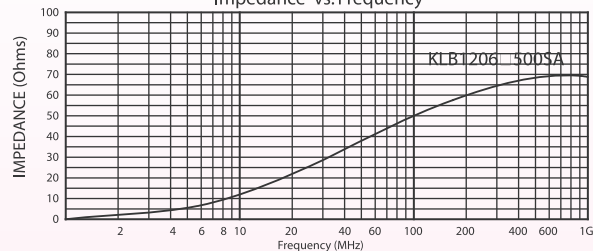
KLB1206 □ 260SA & 310SA

Impedance vs. Frequency



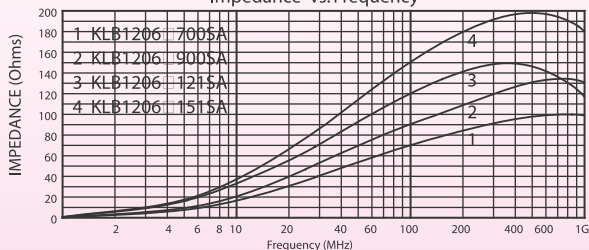
KLB1206 □ 500SA

Impedance vs. Frequency



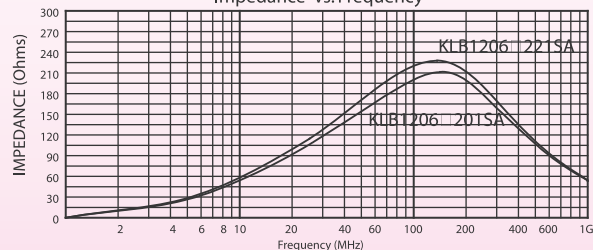
KLB1206 □ 700SA, 900SA, 121SA & 151SA

Impedance vs. Frequency



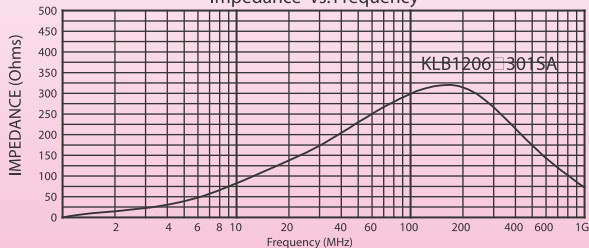
KLB1206 □ 201SA & 221SA

Impedance vs. Frequency



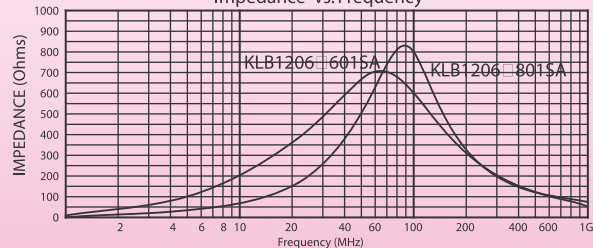
KLB1206 □ 301SA

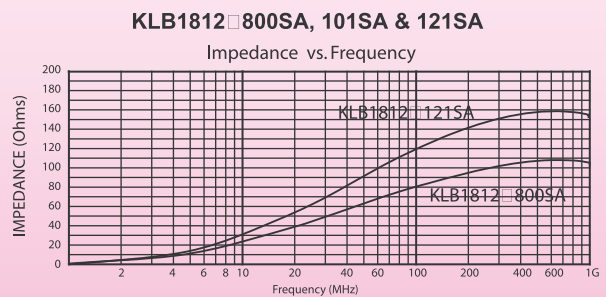
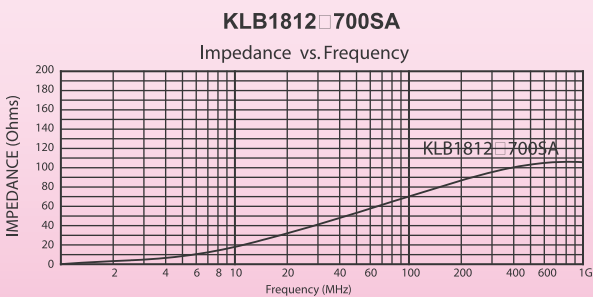
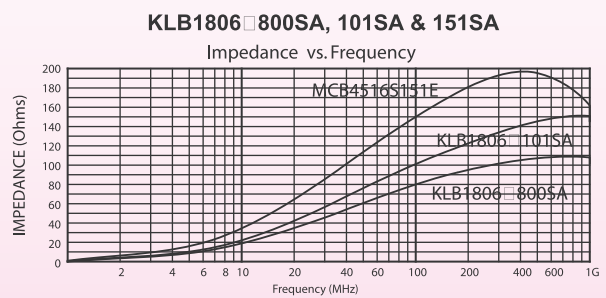
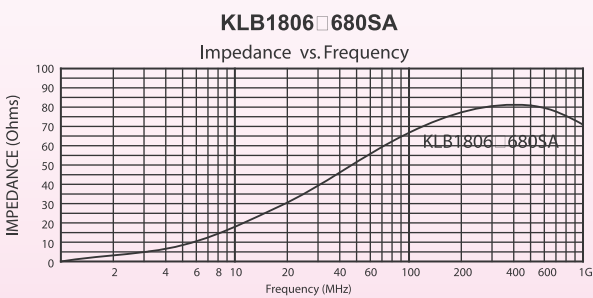
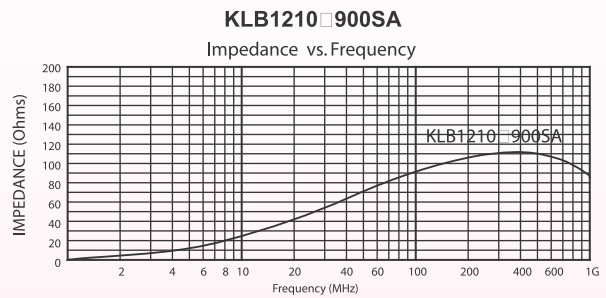
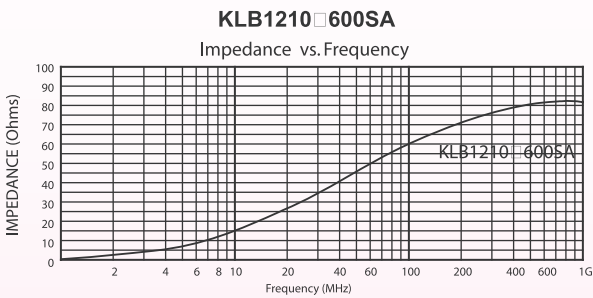
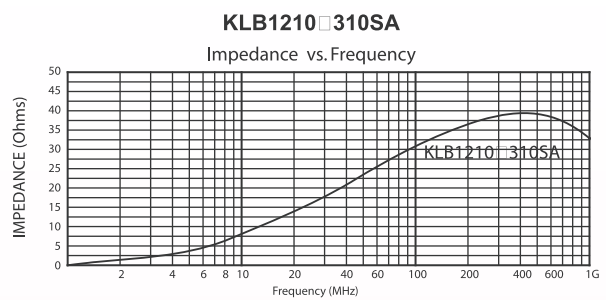
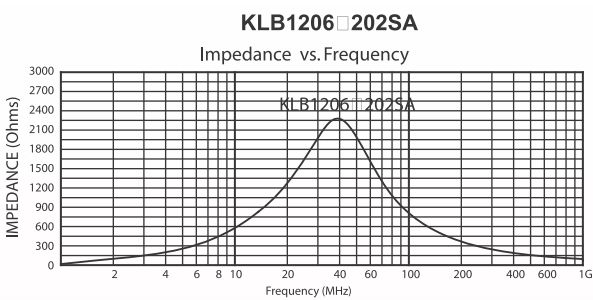
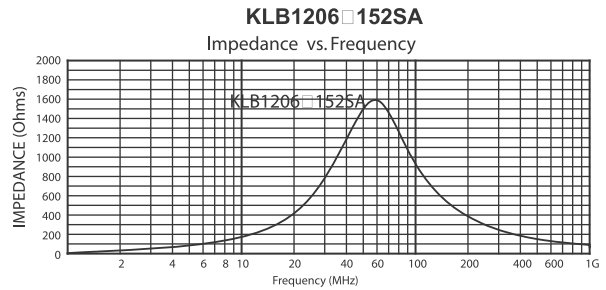
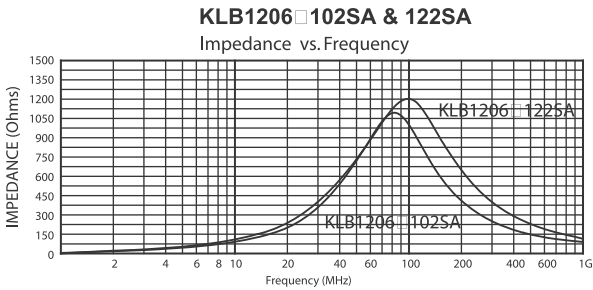
Impedance vs. Frequency



KLB1206 □ 601SA & 801SA

Impedance vs. Frequency





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