

MULTILAYER FERRITE CHIP BEADS (BK SERIES)



WAVE

REFLOW

FEATURES

- Internal silver printed layer creates a closed circuit which acts as a magnetic shield minimizing heat generation and crosstalk.
- No need for grounding provides greater circuit design flexibility.
- Several material types and a broad range of impedance values provide noise countermeasures for various applications.
 - HS : With low R-XL cross point frequency characteristics and large resistance part working as damping function, suppresses unnecessary resonance and keeps signal integrity.
 - HW : With low R-XL cross point frequency characteristics and larger resistance part those of HS, strongly suppresses unnecessary resonance and keeps signal integrity.
 - TS : Low DC resistance HS version. For power supply lines .
 - HM : Resistance part rising exceeding from 20MHz. For general usage, especially effective for video signal lines.
 - HR : Resistance part rising exceeding from 10MHz. For general usage, Wider effective range than that of HM.
 - LM : With larger impedance set at around 200MHz considering for noise regulation.
 - LL : Resistance part steeply rising exceeding from 100MHz. For high speed signal line, good for clock line, sharply cutting noise off.

APPLICATIONS

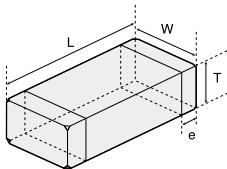
- High frequency noise countermeasure in personal computers, digital cameras and other information system products. For use on digital product clock lines and general signal lines.
- Radiated noise suppression in computer or printer interfaces and harness connectors.
- Noise suppression in video and other AV products.
- Prevents interference between circuits in cellular phones (PHS, PDC, etc.)
- Due to the closed internal circuit which acts as a magnetic shield, the TS material is extremely effective as a noise filter on LSI power supply lines where downsizing of components is needed.

ORDERING CODE

B K 1 6 0 8 H S 1 2 1 - T ○

1 Type	2 External Dimensions (L×W) [mm]	3 Material	4 Impedance [Ω]	5 Characteristics	6 Packaging	7 Internal code
BK Multilayer Ferrite Chip Beads	0603 (0201) 0.6×0.3 1005 (0402) 1.0×0.5 1608 (0603) 1.6×0.8 2125 (0805) 2.0×1.25	HW HS HR HM LM LL TS Refer to impedance curves for material differences	example 150 15 101 100 102 1000	- Standard Products	T Tape & Reel	△ Standard Products △ = Blank Space

EXTERNAL DIMENSIONS/STANDARD QUANTITY

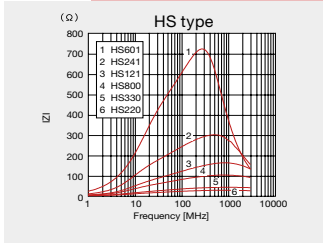


Type	L	W	T	e	Standard Quantity [pcs]	
					Paper Tape	Embossed Tape
BK0603 (0201)	0.60±0.03 (0.024±0.001)	0.30±0.03 (0.012±0.001)	0.30±0.03 (0.012±0.001)	0.15±0.05 (0.006±0.002)	15000	-
BK1005 (0402)	1.00±0.05 (0.039±0.002)	0.50±0.05 (0.020±0.002)	0.50±0.05 (0.020±0.002)	0.25±0.10 (0.010±0.004)	10000	-
BK1608 (0603)	1.6±0.15 (0.063±0.006)	0.8±0.15 (0.031±0.006)	0.8±0.15 (0.031±0.006)	0.3±0.2 (0.012±0.008)	4000	-
BK2125 (0805)	2.0 ^{+0.3} _{-0.1} (0.079 ^{+0.012} _{-0.004})	1.25±0.2 (0.049±0.008)	0.85±0.2 (0.033±0.008)	0.5±0.3 (0.020±0.012)	4000	-
			1.25±0.2 (0.049±0.008)		-	2000

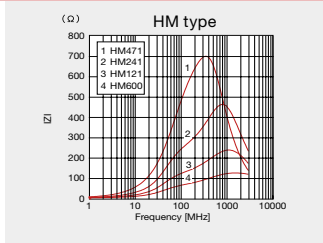
Unit : mm (inch)

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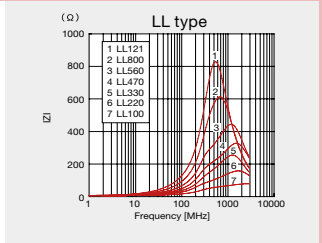
BK0603



I max=150~500mA

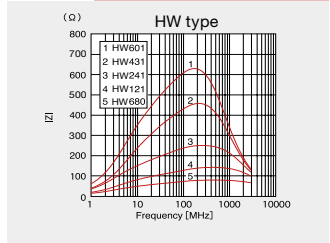


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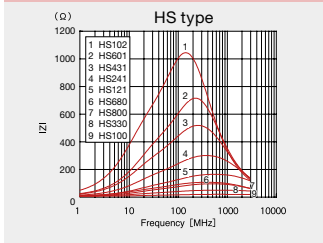


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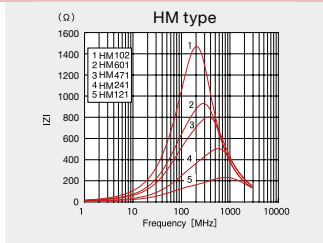
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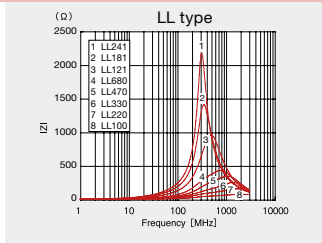
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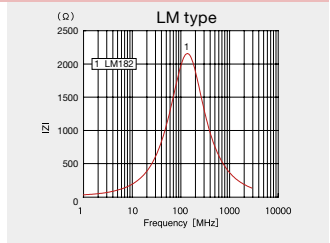
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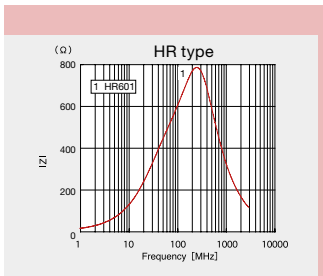
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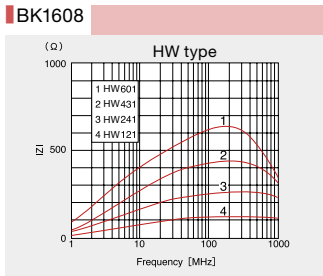
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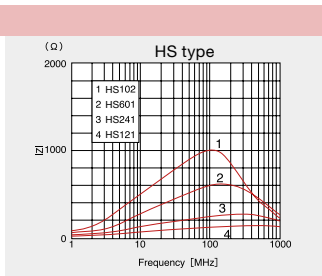
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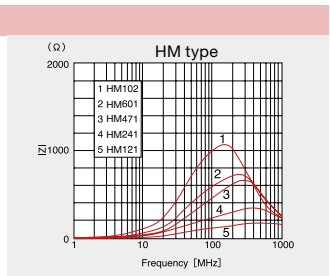
I max=300mA



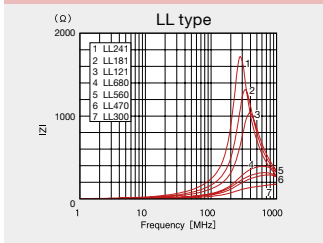
I max=300~600mA



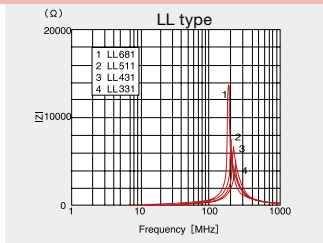
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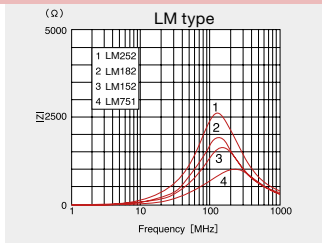
I max=200~350mA



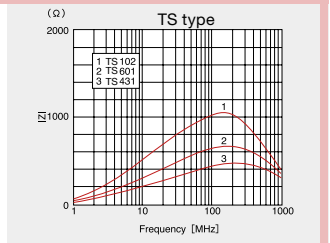
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I max=150~200mA

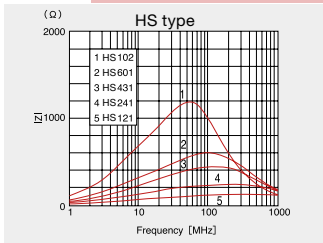


I max=200~300mA

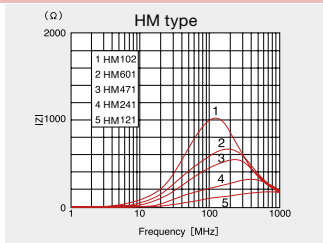


I max=300~400mA

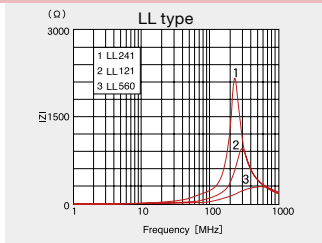
BK2125



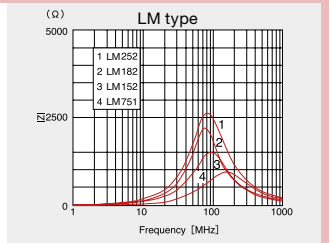
I max=300~1200mA



I max=400~800mA



I max=300~600mA



I max=200~400mA

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PART NUMBERS

●BK0603

Ordering code	EHS (Environmental Hazardous Substances)	Impedance [Ω] $\pm 25\%$	Measuring frequency [MHz]	DC resistance [Ω] (max.)	Rated current [mA] (max.)	Thickness [mm] (inch)
BK 0603HS 220	RoHS	22	100	0.065	500	0.30 \pm 0.03 (0.012 \pm 0.001)
BK 0603HS 330	RoHS	33		0.070	500	
BK 0603HS 800	RoHS	80		0.40	200	
BK 0603HS 121	RoHS	120		0.45	200	
BK 0603HS 241	RoHS	240		0.65	200	
BK 0603HS 601	RoHS	600		1.20	150	
BK 0603HM600	RoHS	60		0.25	200	
BK 0603HM121	RoHS	120		0.40	200	
BK 0603HM241	RoHS	240		0.80	200	
BK 0603HM471	RoHS	470		1.05	100	
BK 0603LL 100	RoHS	10		0.25	200	
BK 0603LL 220	RoHS	22		0.45	200	
BK 0603LL 330	RoHS	33		0.55	150	
BK 0603LL 470	RoHS	47		0.70	150	
BK 0603LL 560	RoHS	56		1.00	100	
BK 0603LL 800	RoHS	80		1.30	100	
BK 0603LL 121	RoHS	120		1.50	100	

●BK1005

Ordering code	EHS (Environmental Hazardous Substances)	Impedance [Ω] $\pm 25\%$	Measuring frequency [MHz]	DC resistance [Ω] (max.)	Rated current [mA] (max.)	Thickness [mm] (inch)
BK 1005HW680	RoHS	68	100	0.17	500	0.50 \pm 0.05 (0.020 \pm 0.002)
BK 1005HW121	RoHS	120		0.24	450	
BK 1005HW241	RoHS	240		0.31	400	
BK 1005HW431	RoHS	430		0.50	350	
BK 1005HW601	RoHS	600		0.60	300	
BK 1005HS 100	RoHS	10		0.03	1000	
BK 1005HS 330	RoHS	33		0.06	700	
BK 1005HS 680	RoHS	68		0.10	700	
BK 1005HS 800	RoHS	80		0.10	700	
BK 1005HS 121	RoHS	120		0.20	500	
BK 1005HS 241	RoHS	240		0.30	400	
BK 1005HS 431	RoHS	430		0.45	350	
BK 1005HS 601	RoHS	600		0.55	300	
BK 1005HS 102	RoHS	1000		0.58	300	
BK 1005HR 601	RoHS	600		0.60	300	
BK 1005HM121	RoHS	120		0.18	300	
BK 1005HM241	RoHS	240		0.30	300	
BK 1005HM471	RoHS	470		0.45	250	
BK 1005HM601	RoHS	600		0.50	250	
BK 1005HM102	RoHS	1000		0.70	150	
BK 1005LL 100	RoHS	10		0.11	500	
BK 1005LL 220	RoHS	22		0.18	400	
BK 1005LL 330	RoHS	33		0.25	400	
BK 1005LL 470	RoHS	47		0.33	350	
BK 1005LL 680	RoHS	68		0.31	400	
BK 1005LL 121	RoHS	120		0.45	350	
BK 1005LL 181	RoHS	180		0.50	300	
BK 1005LL 241	RoHS	240		0.70	250	
BK 1005LM 182	RoHS	1800		0.90	120	

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PART NUMBERS

●BK1608

Ordering code		EHS(Environmental Hazardous Substances)	Impedance [Ω] $\pm 25\%$	Measuring frequency [MHz]	DC resistance [Ω] (max.)	Rated current [mA] (max.)	Thickness [mm] (inch)
BK 1608 HW121		RoHS	120	100	0.15	600	0.80 \pm 0.15 (0.031 \pm 0.006)
BK 1608 HW241		RoHS	240		0.25	450	
BK 1608 HW431		RoHS	430		0.30	400	
BK 1608 HW601		RoHS	600		0.40	300	
BK 1608 HS 220		RoHS	22		0.05	1500	
BK 1608 HS 330		RoHS	33		0.08	1200	
BK 1608 HS 470		RoHS	47		0.10	900	
BK 1608 HS 600		RoHS	60		0.10	800	
BK 1608 HS 800		RoHS	80		0.10	600	
BK 1608 HS 121		RoHS	120		0.18	500	
BK 1608 HS 241		RoHS	240		0.25	400	
BK 1608 HS 601		RoHS	600		0.45	350	
BK 1608 HS 102		RoHS	1000		0.60	300	
BK 1608 HM121		RoHS	120		0.20	350	
BK 1608 HM241		RoHS	240		0.35	300	
BK 1608 HM471		RoHS	470		0.45	250	
BK 1608 HM601		RoHS	600		0.60	250	
BK 1608 HM102		RoHS	1000		0.70	200	
BK 1608 LL 300		RoHS	30		0.20	500	
BK 1608 LL 470		RoHS	47		0.30	400	
BK 1608 LL 560		RoHS	56		0.30	400	
BK 1608 LL 680		RoHS	68		0.35	300	
BK 1608 LL 121		RoHS	120		0.50	300	
BK 1608 LL 181		RoHS	180		0.65	250	
BK 1608 LL 241		RoHS	240		0.80	250	
BK 1608 LL 331		RoHS	330		0.85	200	
BK 1608 LL 431		RoHS	430		0.85	200	
BK 1608 LL 511		RoHS	510		0.90	200	
BK 1608 LL 681		RoHS	680		1.00	150	
BK 1608 LM 751		RoHS	750		0.60	300	
BK 1608 LM 152		RoHS	1500		0.75	250	
BK 1608 LM 182		RoHS	1800		0.85	200	
BK 1608 LM 252		RoHS	2500		1.10	200	
BK 1608 TS 431		RoHS	430	0.21 \pm 30%	400		
BK 1608 TS 601		RoHS	600	0.27 \pm 30%	350		
BK 1608 TS 102		RoHS	1000	0.30 \pm 30%	300		

●BK2125

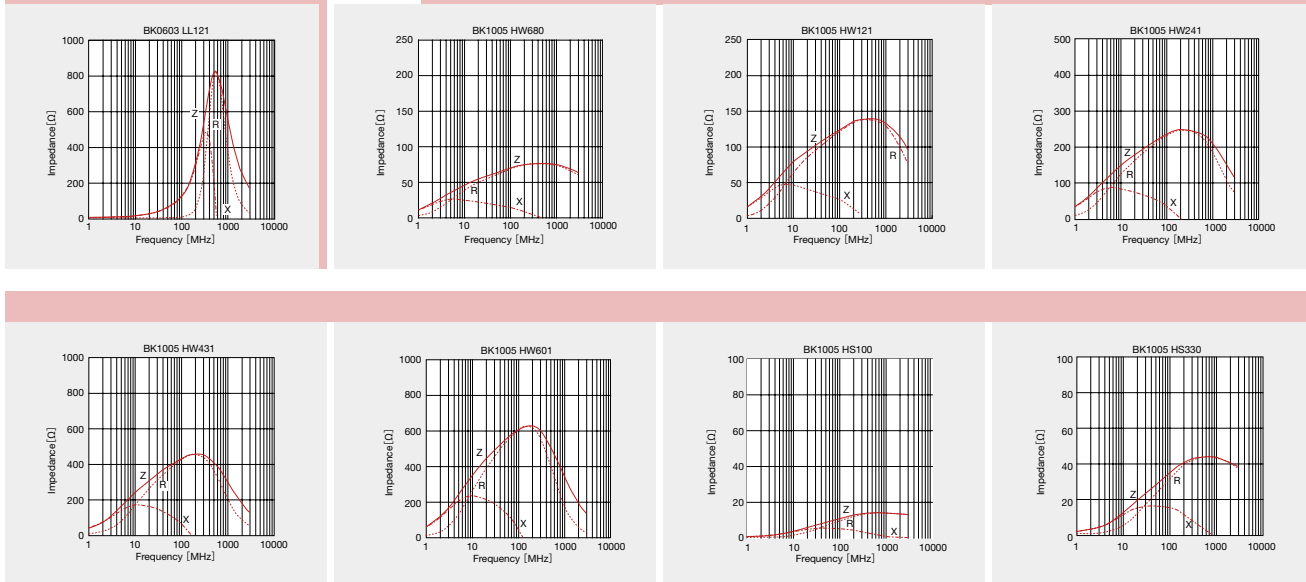
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BK 2125 HS 150		RoHS	15	100	0.05	1200	0.85 \pm 0.2 (0.033 \pm 0.008)
BK 2125 HS 220		RoHS	22		0.05	1200	
BK 2125 HS 330		RoHS	33		0.05	1200	
BK 2125 HS 470		RoHS	47		0.05	1000	
BK 2125 HS 750		RoHS	75		0.10	1000	
BK 2125 HS 101		RoHS	100		0.10	900	
BK 2125 HS 121		RoHS	120		0.15	800	
BK 2125 HS 241		RoHS	240		0.20	600	
BK 2125 HS 431		RoHS	430		0.25	500	
BK 2125 HS 601		RoHS	600		0.30	500	
BK 2125 HS 102		RoHS	1000		0.40	300	
BK 2125 HM121		RoHS	120		0.15	800	
BK 2125 HM241		RoHS	240		0.20	600	
BK 2125 HM471		RoHS	470		0.25	500	
BK 2125 HM601		RoHS	600		0.25	500	
BK 2125 HM102		RoHS	1000		0.35	400	
BK 2125 LL 560		RoHS	56		0.20	600	
BK 2125 LL 121		RoHS	120		0.30	400	
BK 2125 LL 241		RoHS	240		0.35	300	
BK 2125 LM 751		RoHS	750		0.30	400	
BK 2125 LM 152		RoHS	1500		0.35	400	
BK 2125 LM 182		RoHS	1800		0.45	300	
BK 2125 LM 252		RoHS	2500		0.75	200	

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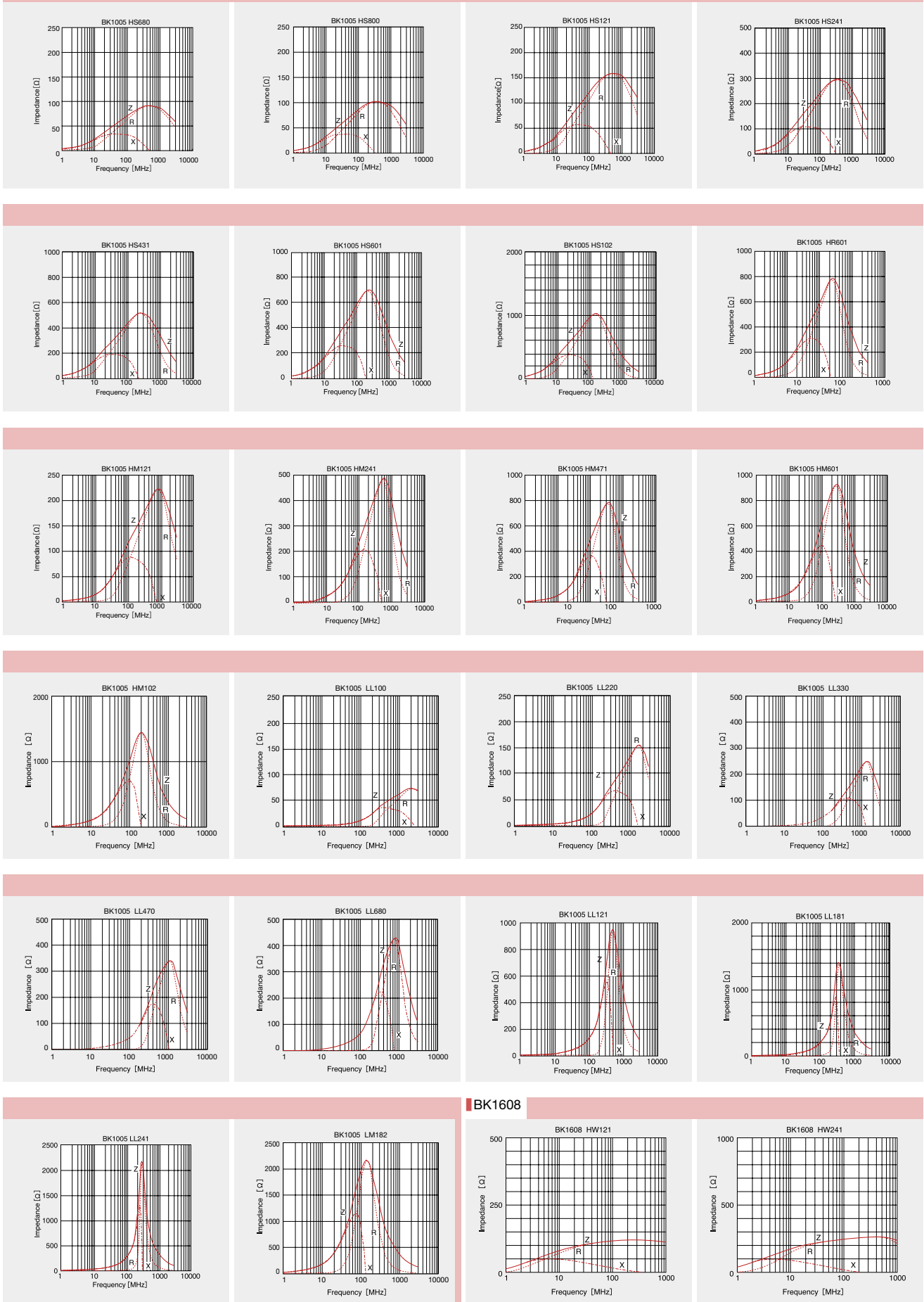
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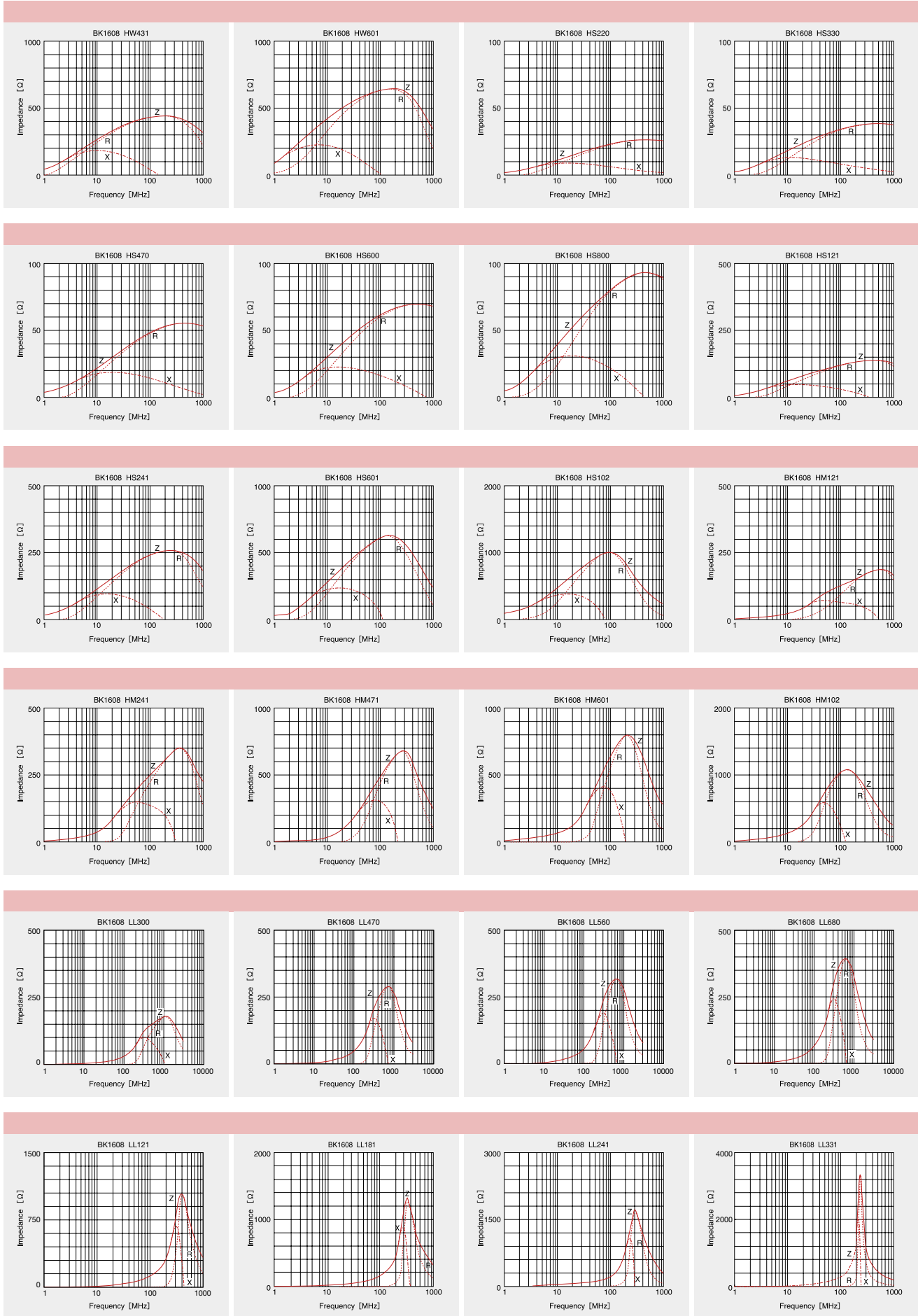
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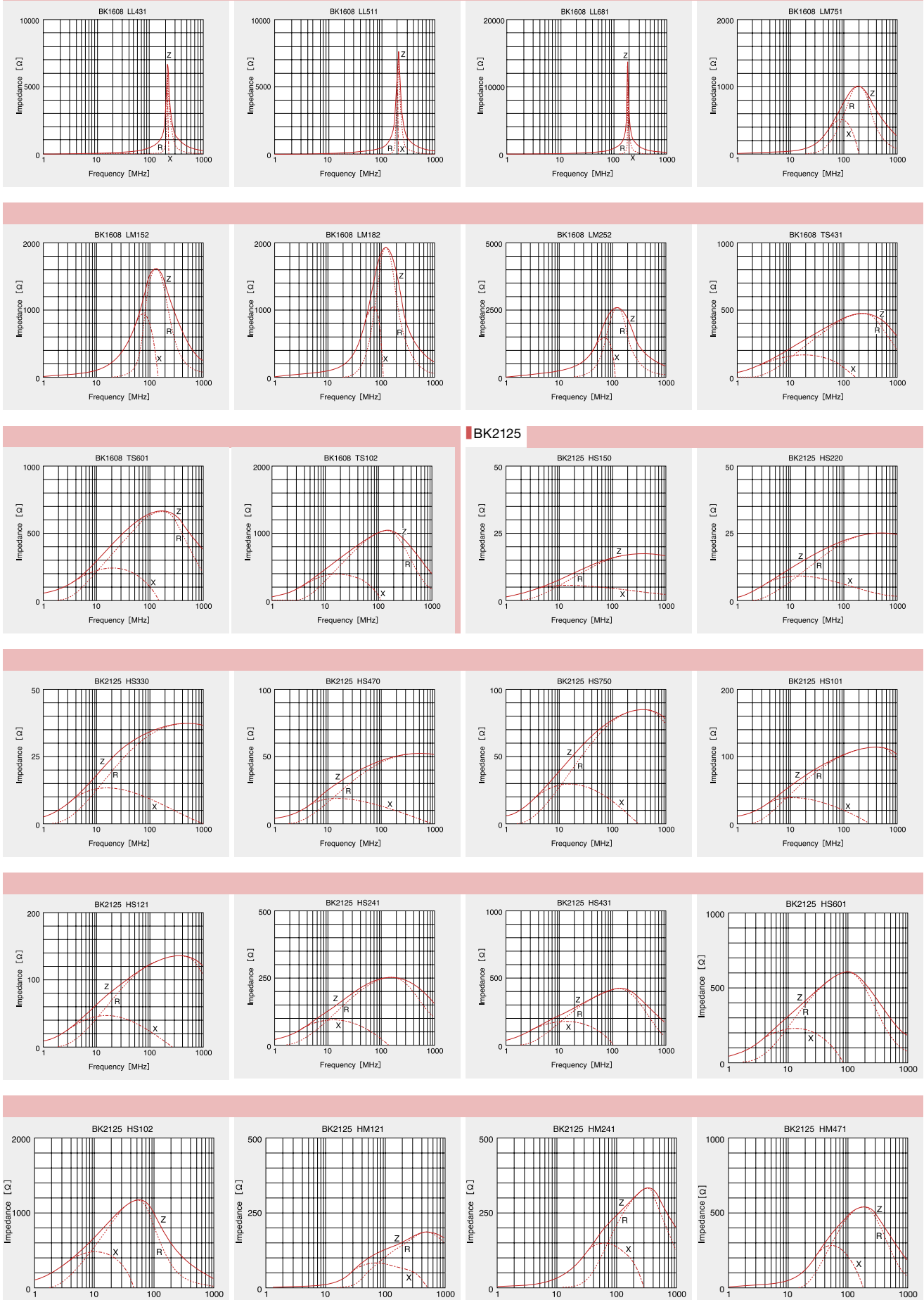
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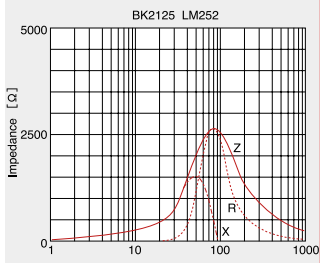
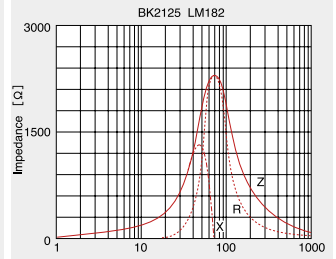
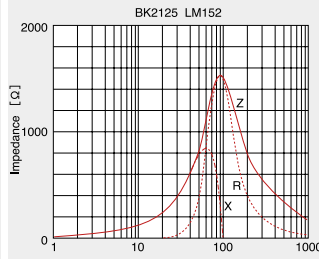
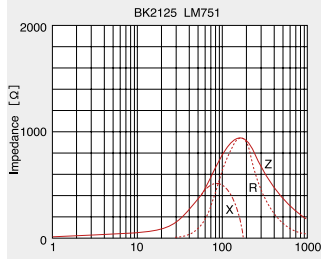
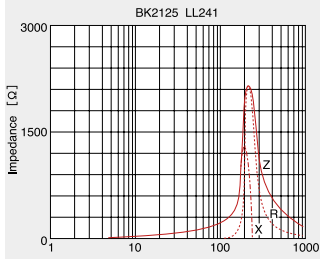
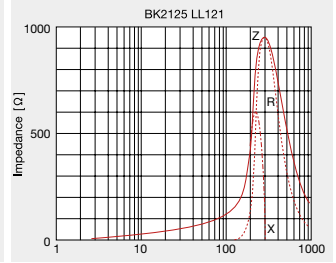
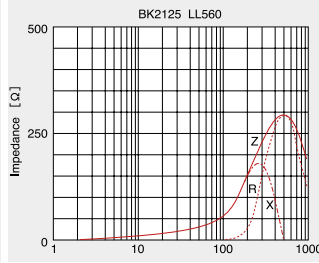
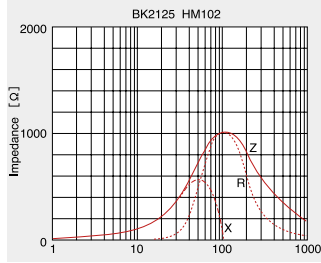
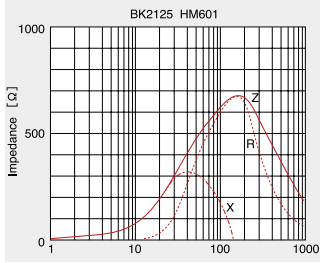
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