



ELECTRONIC COMPANY

SMD Multilayer Chip Ferrite Bead

DBHZ SERIES

Operating Temp. : -55°C~+125°C



FEATURES/APPLICATOINS

- Internal silver printed layers and magnetic shielded structures to minimize crosstalk
- Perfect effect for EMI suppression at high frequency ($\geq 1\text{GHz}$) due to its high impedance
- Four types material and wide range of impedance values for various applications
- High frequency noise suppression in electric equipments such as computer and peripheral devices, DVD, cameras, LCD TVs, communication equipments, OA equipments, etc.

PRODUCT INDICATION

DBHZ

①

1608

②

K

③

301

④

T

⑤

F

⑥

①

Type	
DBHZ	Chip Ferrite Bead for High Frequency

②

External Dimensions (L×W) (mm)	
1005 [0402]	1.0×0.5
1608 [0603]	1.6×0.8

③

Material Code
G, K, D, U

④

Nominal Impedance	
Example	Nominal Value
301	300Ω
102	1000Ω

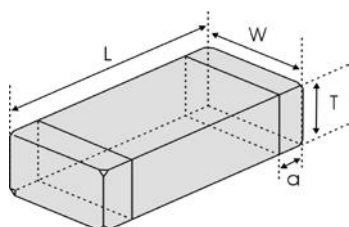
⑤

Packing	
T	Tape & Reel

⑥

Hazardous Substance Free Products
F

SHAPE AND DIMENSIONS

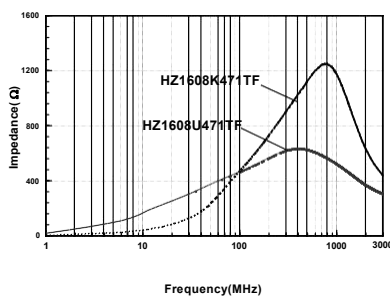
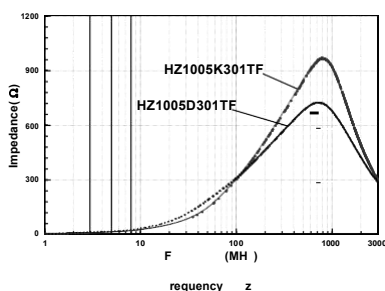


Unit: mm [inch]

Type	L	W	T	a
DBHZ0603 [0201]	0.6±0.05 [.024±.002]	0.3±0.05 [.012±.002]	0.3±0.05 [.012±.002]	0.15±0.05 [.006±.002]
DBHZ1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]
DBHZ1608 [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]

TYPICAL ELECTRICAL CHARACTERISTICS

D, K, U Material Comparison



SPECIFICATIONS

DBHZ0603 TYPE

Part Number	Impedance		Max. DC Resistance	Max. Rated Current	Thickness
	@100MHz	@1GHz Min.			
Units	Ω		Ω	mA	mm [inch]
Symbol	Z		DCR	I _r	T
DBHZ0603D331TF	330±25%	450	1.00	200	0.3±0.05 [.012±.002]
DBHZ0603D471TF	470±25%	600	1.30	175	
DBHZ0603D601TF	600±25%	900	1.70	150	
DBHZ0603G121TF	120±25%	600	1.50	200	
DBHZ0603G221TF	220±25%	720	2.00	150	

DBHZ1005 TYPE

Part Number	Impedance		Max. DC Resistance	Max. Rated Current	Thickness
	@100MHz	@1GHz Min.			
Units	Ω		Ω	mA	mm [inch]
Symbol	Z		DCR	I _r	T
DBHZ1005G121TF	120±25%	500	0.70	300	0.5±0.15 [.020±.006]
DBHZ1005G221TF	220±25%	900	1.00	250	
DBHZ1005D221TF	220±25%	300	0.50	300	
DBHZ1005D301TF	300±25%	400	1.00	100	
DBHZ1005D601TF	600±25%	700	1.50	100	
DBHZ1005D102TF	1000±25%	900	1.80	50	
DBHZ1005K181TF	180±25%	400	1.00	100	
DBHZ1005K301TF	300±25%	600	1.10	100	
DBHZ1005K471TF	470±25%	900	1.30	100	
DBHZ1005K601TF	600±25%	1100	0.85	300	
DBHZ1005K102TF	1000±25%	1200	1.25	250	
DBHZ1005K152TF	1500±25%	1400	2.20	50	
DBHZ1005K182TF	1800±25%	1620	2.20	200	
DBHZ1005U601TF	600±25%	600	0.70	300	
DBHZ1005U102TF	1000±25%	900	1.10	250	

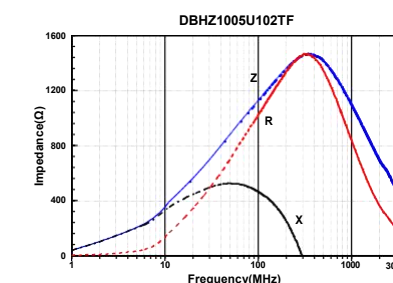
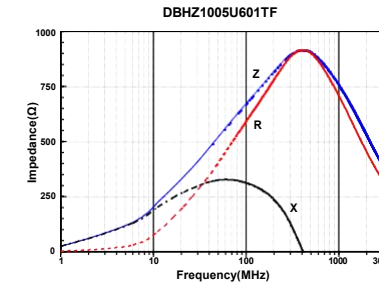
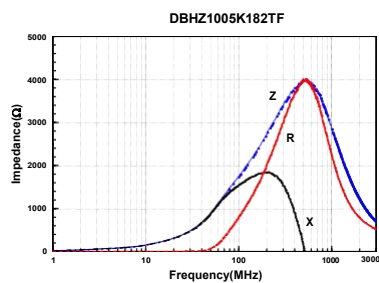
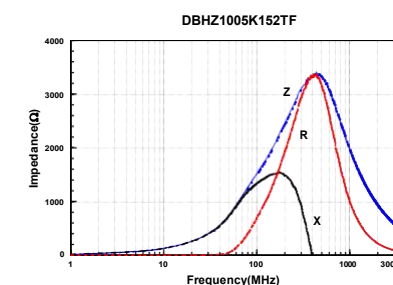
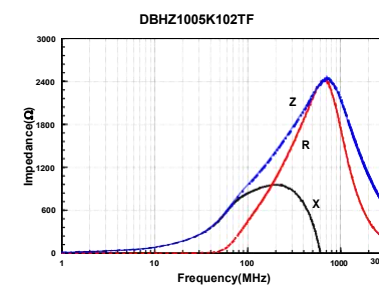
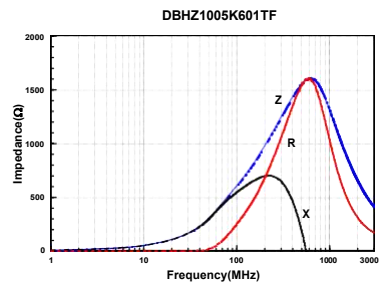
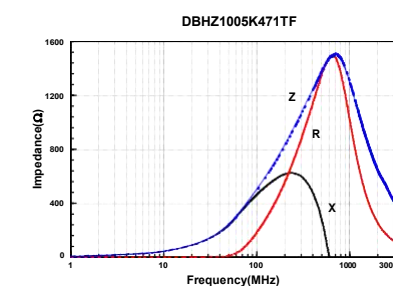
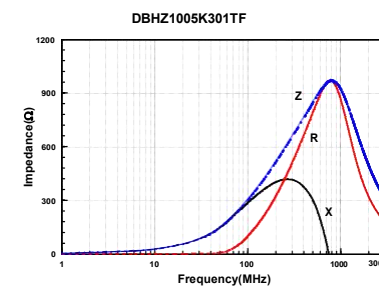
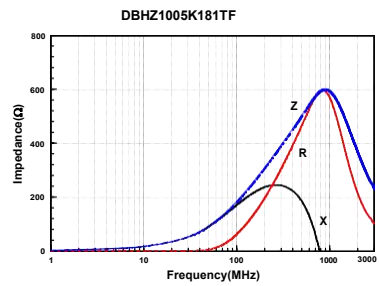
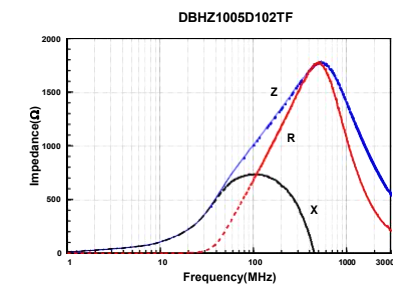
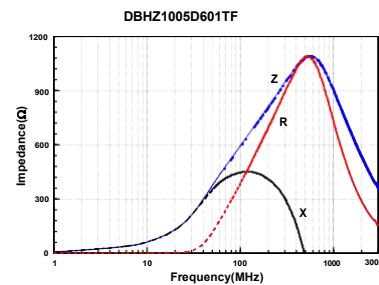
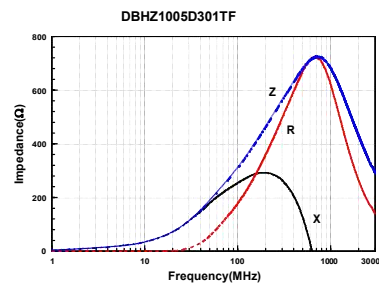
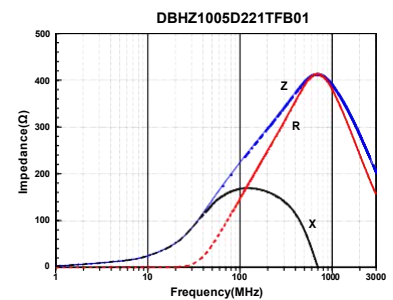
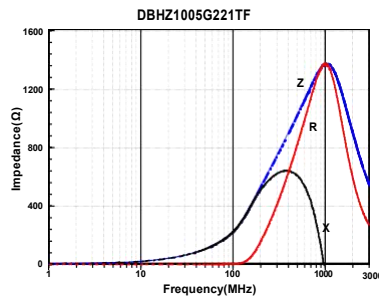
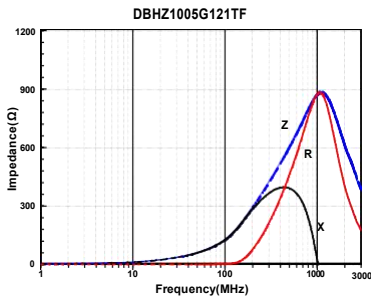
DBHZ1608 TYPE

Part Number	Impedance		Max. DC Resistance	Max. Rated Current	Thickness
	@100MHz	@1GHz Min.			
Units	Ω		Ω	mA	mm [inch]
Symbol	Z		DCR	I _r	T
DBHZ1608K471TF	470±25%	700	1.20	100	0.8±0.15 [.031±.006]
DBHZ1608K601TF	600±25%	850	1.50	100	
DBHZ1608K102TF	1000±25%	1100	1.80	50	
DBHZ1608U181TF	180±25%	180	0.55	200	
DBHZ1608U301TF	300±25%	300	0.75	200	
DBHZ1608U471TF	470±25%	400	0.85	200	
DBHZ1608U601TF	600±25%	450	1.00	200	
DBHZ1608U102TF	1000±25%	750	1.60	100	

※: Products with other electrical characteristics can be provided upon customer's request. Please contact your local sales.

DETAIL ELECTRICAL CHARACTERISTICS

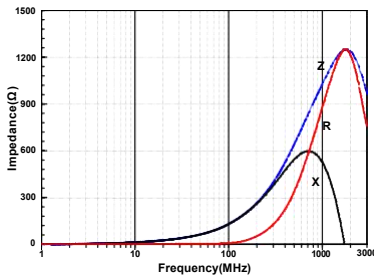
DBHZ1005 TYPE



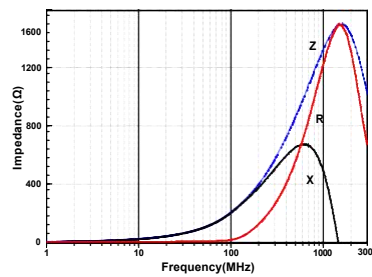
DETAIL ELECTRICAL CHARACTERISTICS

DBHZ0603 TYPE

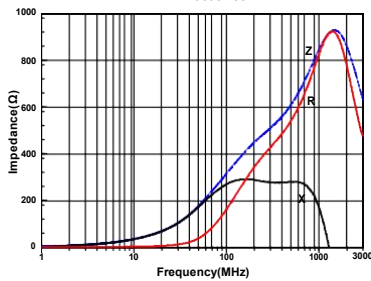
DBHZ0603G121TF



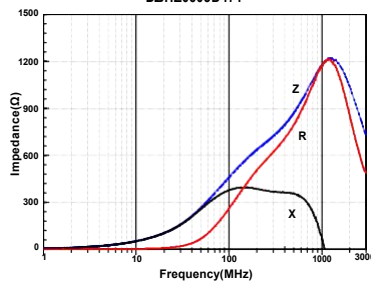
DBHZ0603G221TF



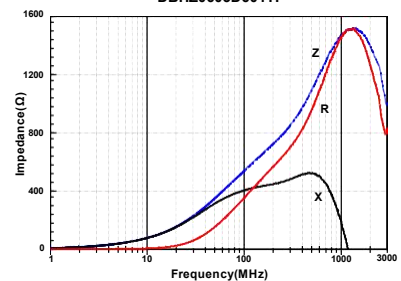
DBHZ0603D33



DBHZ0603D471

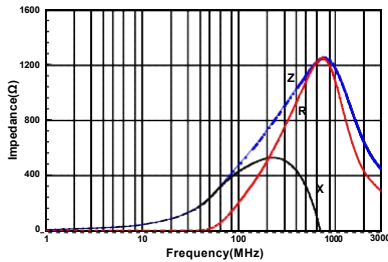


DBHZ0603D601TF

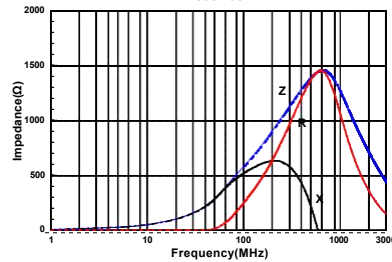


DBHZ1608 TYPE

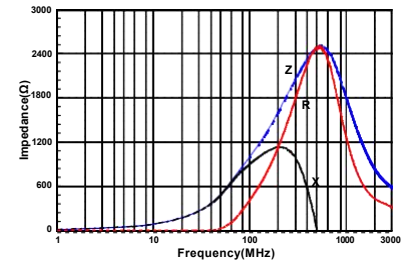
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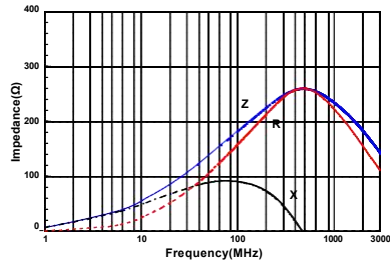
DBHZ1608K601TF



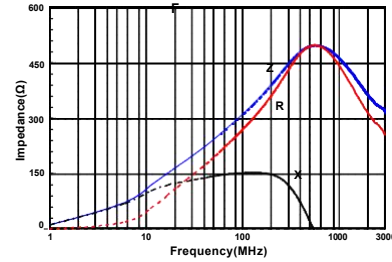
DBHZ1608K102TF



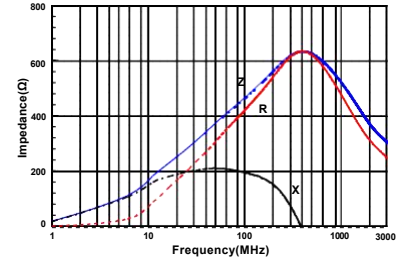
DBHZ1608U181TF



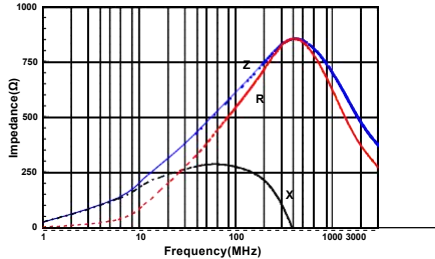
DBHZ1608U301T



DBHZ1608U471TF



DBHZ1608U601TF



DBHZ1608U102TF

