



FERRITE CHIP BEADS TCBG Series

OPERATING TEMP.	1005 :-40~+85℃
	1608
	2012 :-40~+85℃

FEATURES:

- These multilayer chip beads produce higher impedance than same sized plug-in beads.
- TCBG series provides substantial EMI, RFI suppression.
- Constructed per EIA standard and can easily be picked and placed by standard SMT equipment.

APPLICATIONS:

- Radiated noise suppression in digital clocks and signal lines circuits.

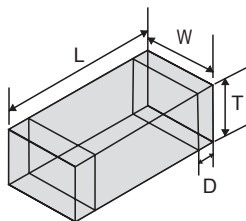
ORDER CODE

TCBG	201209	U	121	T
①	②	③	④	⑤

①		②		③	④		⑤	
Product Code		(L × W × T) (mm) Dimensions		Material Code	(Ω) Impedance		Packaging Style	
TCBG	Multilayer chip beads	100505	1.0 × 0.5 × 0.5	U	110	11	T	Tape & Reel
		160808	1.6 × 0.8 × 0.8		121	120	B	Bulk
		201209	2.0 × 1.2 × 0.9		221	220		
		321609	3.2 × 1.6 × 0.9		102	1000		
		322513	3.2 × 2.5 × 1.3					
		451616	4.5 × 1.6 × 1.6					
		453215	4.5 × 3.2 × 1.5					

DIMENSIONS:

unit: mm(inch)



Part No.	L	W	T	D
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±0.10 (0.010±0.004)
160808 (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.3±0.2 (0.01±0.008)
201209 (0805)	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)
321609 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)
322513 (1210)	3.2±0.2 (0.126±0.008)	2.5±0.2 (0.098±0.008)	1.3±0.2 (0.051±0.008)	0.5±0.3 (0.020±0.012)
451616 (1806)	4.5±0.2 (0.186±0.008)	1.6±0.2 (0.063±0.008)	1.6±0.2 (0.063±0.008)	0.5±0.3 (0.020±0.012)
453215 (1812)	4.5±0.2 (0.180±0.008)	3.2±0.2 (0.126±0.008)	1.5±0.2 (0.060±0.008)	0.5±0.3 (0.020±0.012)

FERRITE CHIP BEADS

ELECTRICAL CHARACTERISTICS

TCBG1005

Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG100505U070	0~11	0.10	300
TCBG100505U190	12~25	0.10	300
TCBG100505U260	26 $\pm$ 25%	0.15	300
TCBG100505U310	31 $\pm$ 25%	0.20	300
TCBG100505U360	36 $\pm$ 25%	0.20	300
TCBG100505U600	60 $\pm$ 25%	0.35	200
TCBG100505U101	100 $\pm$ 25%	0.50	150
TCBG100505U121	120 $\pm$ 25%	0.50	150
TCBG100505U151	150 $\pm$ 25%	0.55	150
TCBG100505U201	200 $\pm$ 25%	0.70	100
TCBG100505U301	300 $\pm$ 25%	0.80	100
TCBG100505U501	500 $\pm$ 25%	1.10	100
TCBG100505U601	600 $\pm$ 25%	1.30	100
TCBG100505U801	800 $\pm$ 25%	1.40	50
TCBG100505U102	1000 $\pm$ 25%	1.60	25
TCBG100505U122	1200 $\pm$ 25%	1.80	25

TCBG1608

Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG160808U070	0~11	0.10	800
TCBG160808U150	9~21	0.10	800
TCBG160808U310	31 $\pm$ 25%	0.10	500
TCBG160808U700	70 $\pm$ 25%	0.20	300
TCBG160808U800	80 $\pm$ 25%	0.20	300
TCBG160808U101	100 $\pm$ 25%	0.30	200
TCBG160808U121	120 $\pm$ 25%	0.30	200
TCBG160808U151	150 $\pm$ 25%	0.35	200
TCBG160808U181	180 $\pm$ 25%	0.45	200
TCBG160808U221	220 $\pm$ 25%	0.45	200
TCBG160808U301	300 $\pm$ 25%	0.50	150
TCBG160808U501	500 $\pm$ 25%	0.60	150
TCBG160808U601	600 $\pm$ 25%	0.60	100
TCBG160808U801	800 $\pm$ 25%	0.70	100
TCBG160808U102	1000 $\pm$ 25%	0.80	100
TCBG160808U122	1200 $\pm$ 25%	0.85	100
TCBG160808U152	1500 $\pm$ 25%	0.85	50
TCBG160808U182	1800 $\pm$ 25%	1.10	50
TCBG160808U202	2000 $\pm$ 25%	1.10	50

FERRITE CHIP BEADS

TCBG2012

Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG201209U050	0~15	0.08	900
TCBG201209U110	7~15	0.10	900
TCBG201209U260	26±25%	0.10	900
TCBG201209U310	31±25%	0.10	900
TCBG201209U500	50±25%	0.15	900
TCBG201209U600	60±25%	0.15	900
TCBG201209U800	80±25%	0.18	500
TCBG201209U101	100±25%	0.18	400
TCBG201209U121	120±25%	0.20	400
TCBG201209U151	150±25%	0.20	400
TCBG201209U181	180±25%	0.20	300
TCBG201209U221	220±25%	0.20	300
TCBG201209U301	300±25%	0.35	300
TCBG201209U501	500±25%	0.40	300
TCBG201209U601	600±25%	0.40	300
TCBG201209U801	800±25%	0.45	200
TCBG201209U102	1000±25%	0.45	200
TCBG201209U122	1200±25%	0.60	100
TCBG201209U152	1500±25%	0.70	100
TCBG201209U202	2000±25%	0.90	50

TCBG3216

Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG321609U050	0~15	0.10	1000
TCBG321609U110	7~15	0.10	1000
TCBG321609U260	26±25%	0.10	1000
TCBG321609U310	31±25%	0.10	1000
TCBG321609U600	60±25%	0.15	1000
TCBG321609U800	80±25%	0.15	1000
TCBG321609U121	120±25%	0.25	1000
TCBG321609U151	150±25%	0.30	400
TCBG321609U181	180±25%	0.30	400
TCBG321609U221	220±25%	0.35	400
TCBG321609U301	300±25%	0.40	400
TCBG321609U501	500±25%	0.45	300
TCBG321609U601	600±25%	0.45	300
TCBG321609U801	800±25%	0.55	300
TCBG321609U102	1000±25%	0.55	300
TCBG321609U122	1200±25%	0.60	100

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TCBG3225

Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG322513U190	12~25	0.10	1000
TCBG322513U260	26±25%	0.10	1000
TCBG322513U310	31±25%	0.10	1000
TCBG322513U600	60±25%	0.15	1000
TCBG322513U800	80±25%	0.20	400
TCBG322513U101	100±25%	0.20	400
TCBG322513U121	120±25%	0.20	400
TCBG322513U151	150±25%	0.30	400
TCBG322513U181	180±25%	0.40	400
TCBG322513U221	220±25%	0.40	400
TCBG322513U301	300±25%	0.40	400
TCBG322515U501	500±25%	0.40	300
TCBG322513U601	600±25%	0.40	300
TCBG322513U801	800±25%	0.40	300
TCBG322513U102	1000±25%	0.40	300

TCBG4516

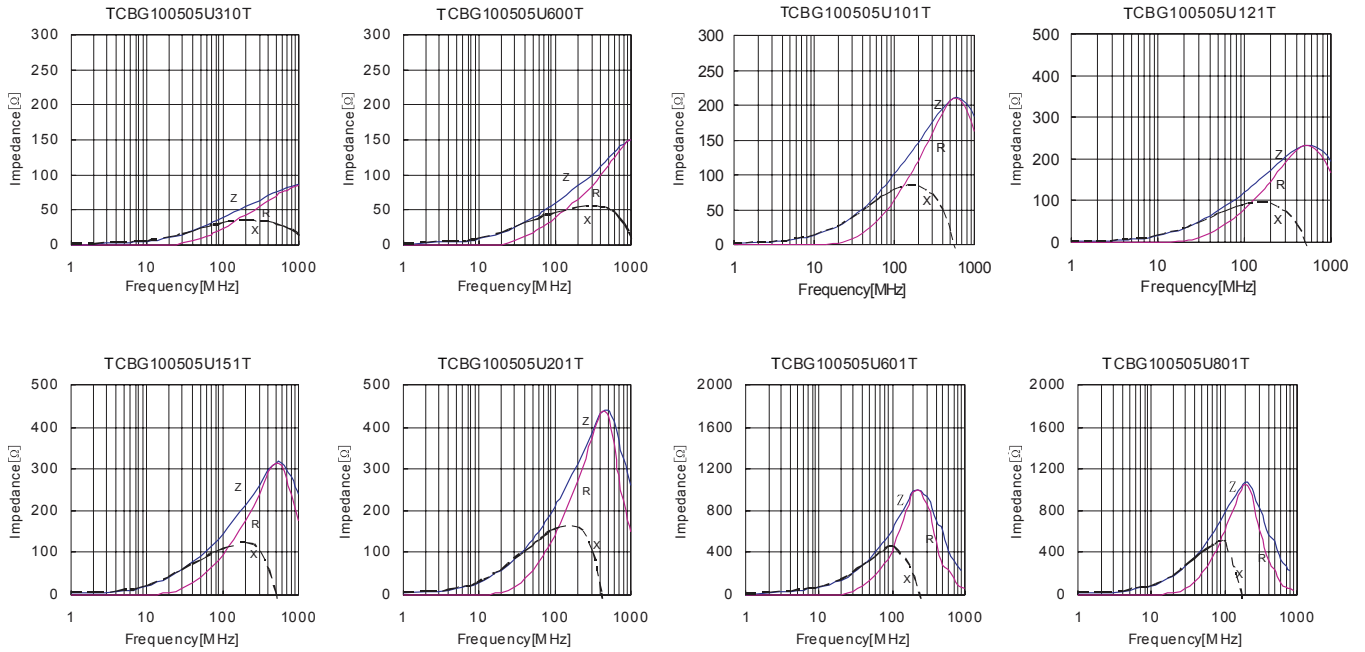
Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG451616U190	12~25	0.10	1000
TCBG451616U260	26±25%	0.10	1000
TCBG451616U310	31±25%	0.15	1000
TCBG451616U600	60±25%	0.20	1000
TCBG451616U700	70±25%	0.25	1000
TCBG451616U800	80±25%	0.30	1000
TCBG451616U900	90±25%	0.35	1000
TCBG451616U121	120±25%	0.40	500
TCBG451616U151	150±25%	0.40	500
TCBG451616U221	220±25%	0.45	500
TCBG451616U301	300±25%	0.45	500
TCBG451616U501	500±25%	0.50	200
TCBG451616U601	600±25%	0.50	200
TCBG451616U801	800±25%	0.55	200

TCBG4532

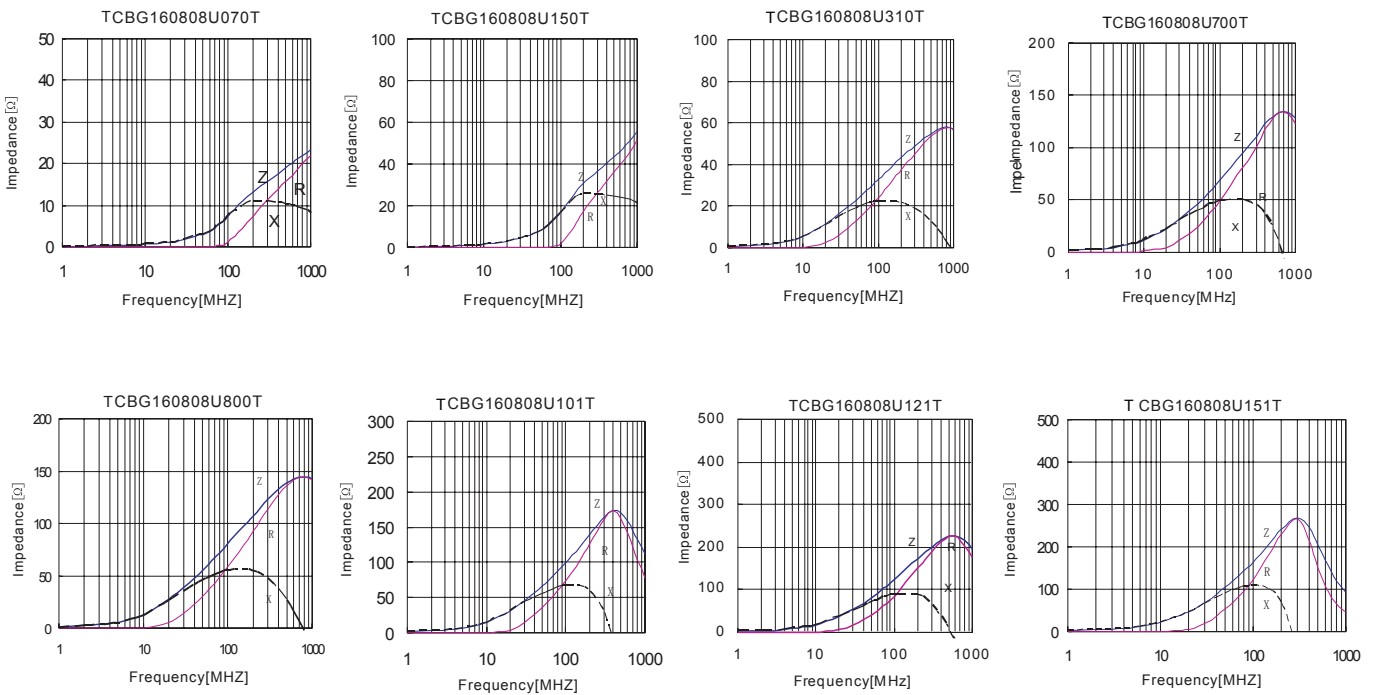
Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	Ir (mA)Max
TCBG453215U190	12~25	0.10	1000
TCBG453215U380	38±25%	0.15	1000
TCBG453215U700	70±25%	0.20	1000
TCBG453215U800	80±25%	0.20	1000
TCBG453215U101	100±25%	0.20	500
TCBG453215U121	120±25%	0.25	500
TCBG453215U151	150±25%	0.25	500
TCBG453215U221	220±25%	0.30	300
TCBG453215U301	300±25%	0.30	300
TCBG453215U601	600±25%	0.40	200
TCBG453215U801	800±25%	0.45	200
TCBG453215U102	1000±25%	0.50	200

FERRITE CHIP BEADS

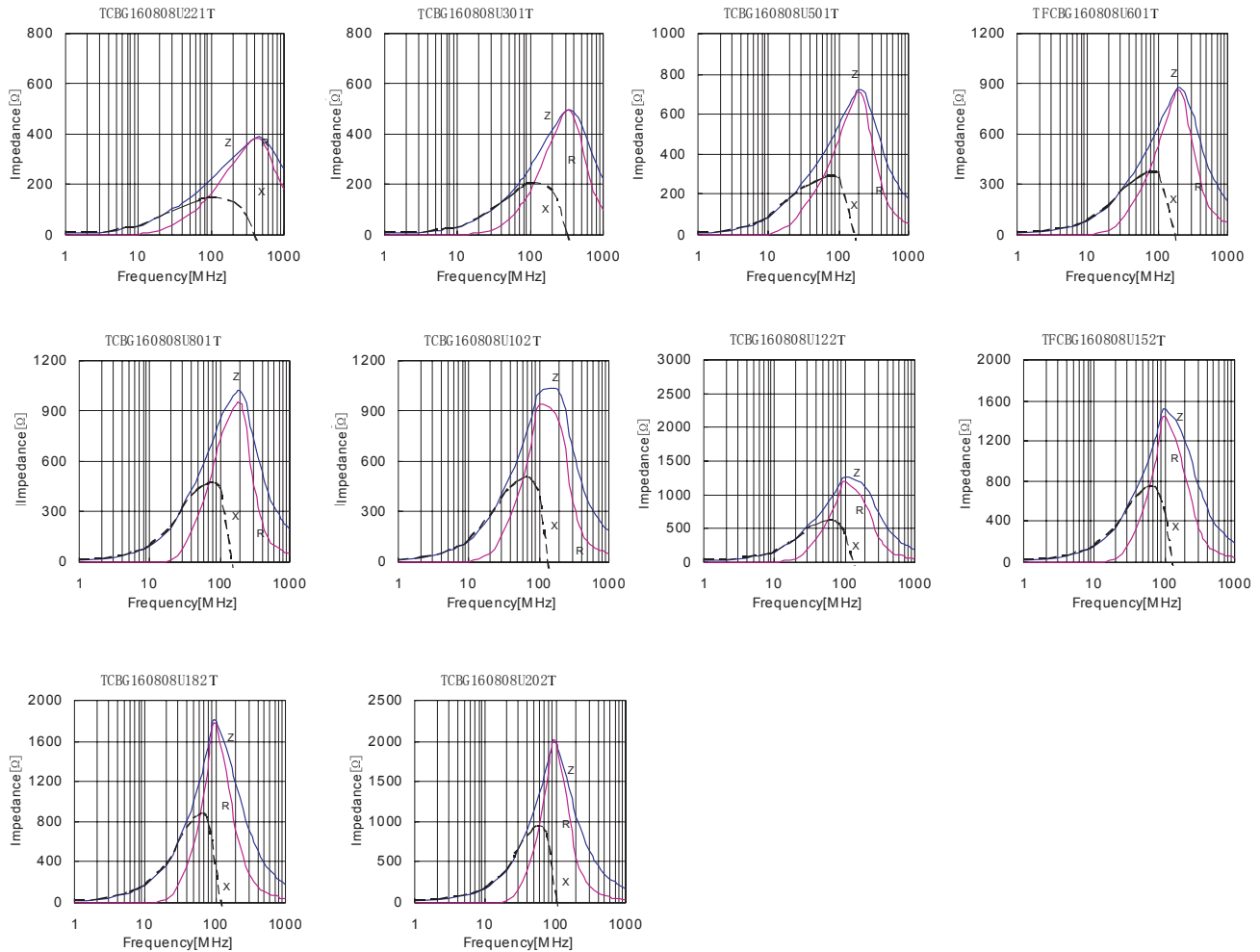
TCBG1005 SERIES



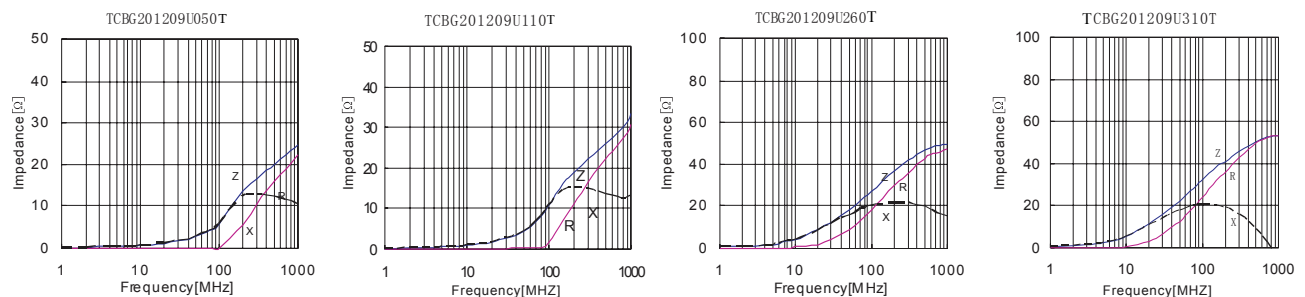
TCBG1608 SERIES



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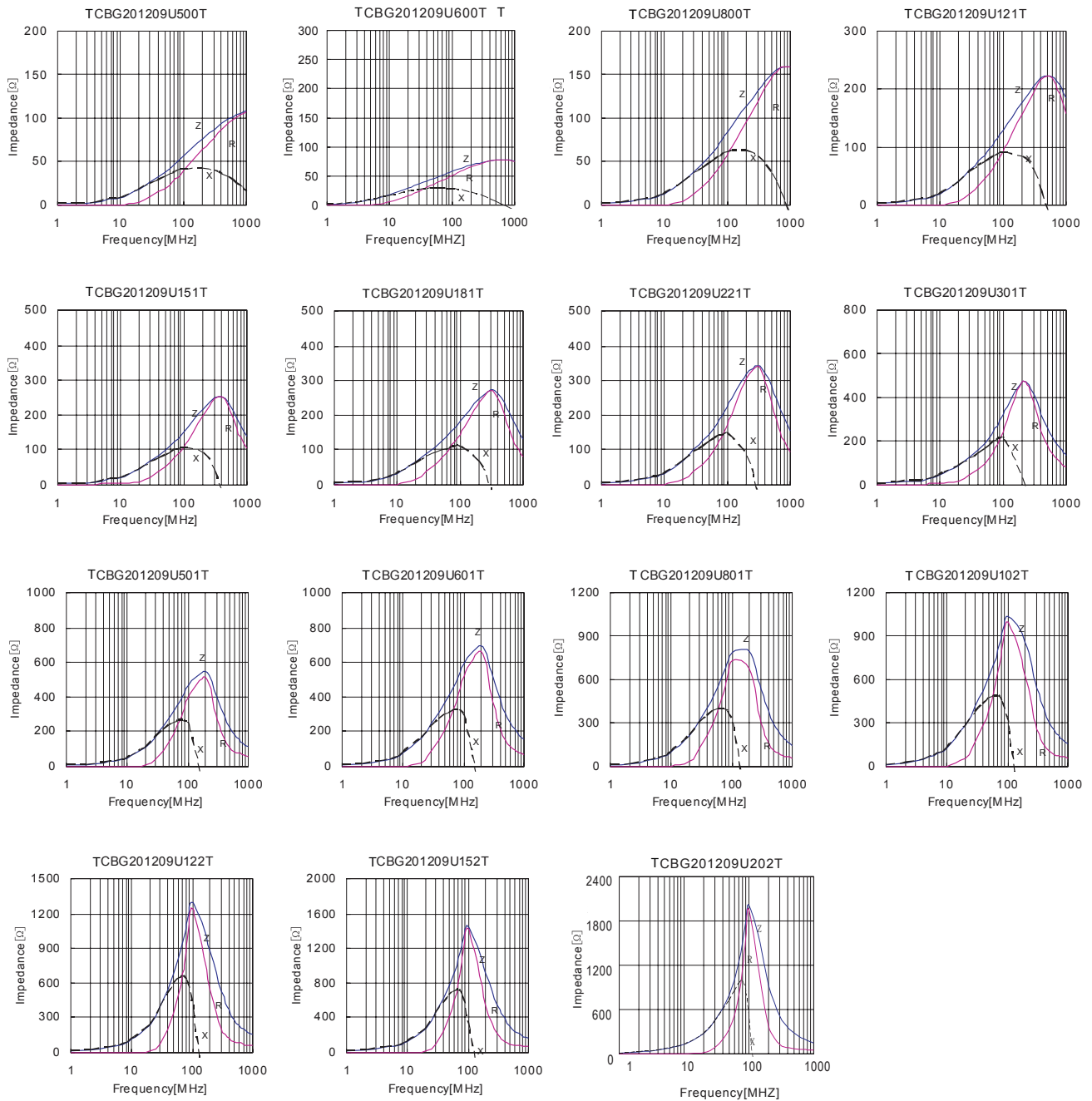


TCBG2012 SERIES



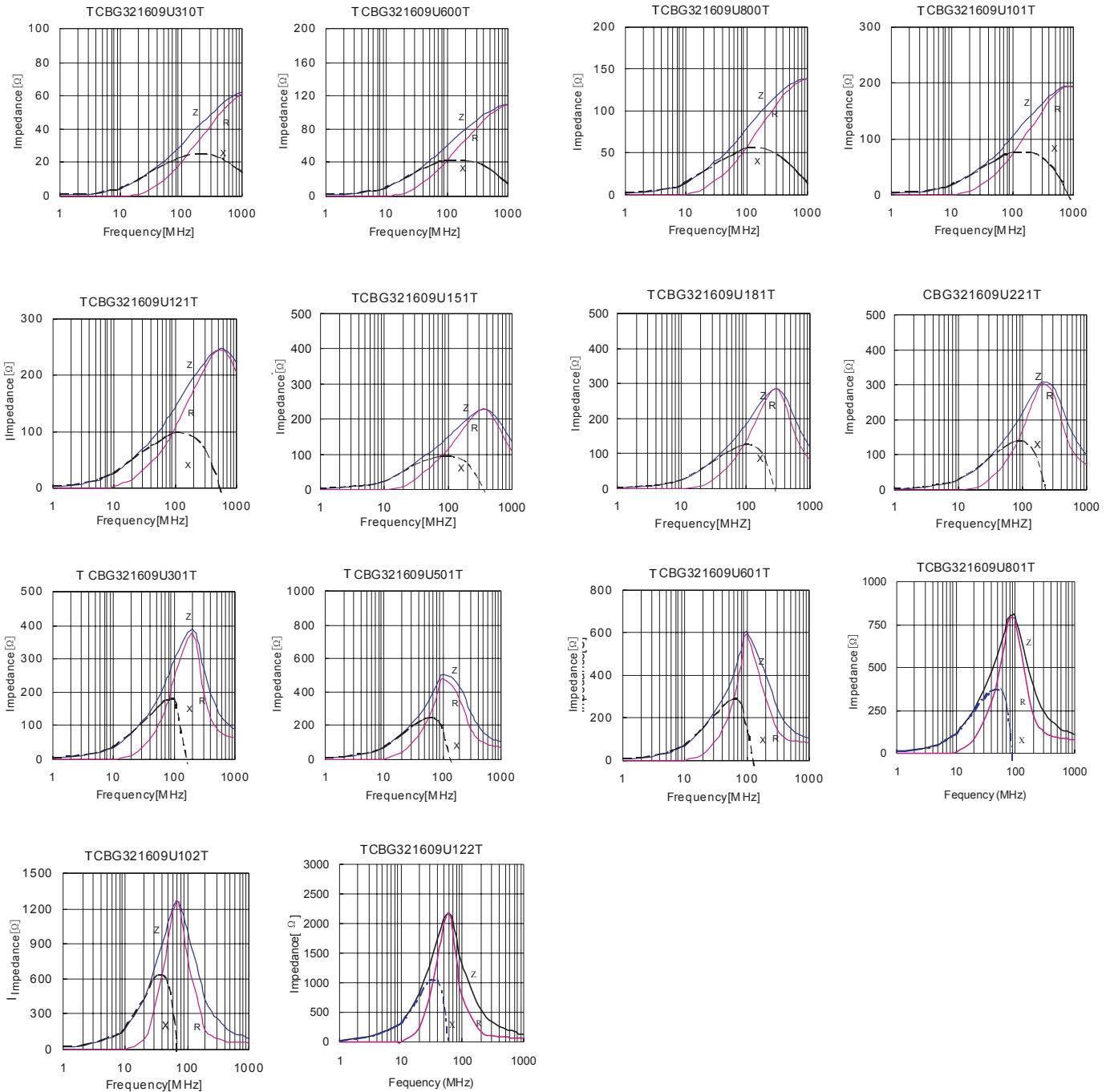
FERRITE CHIP BEADS

TCBG2012 (Cont.)



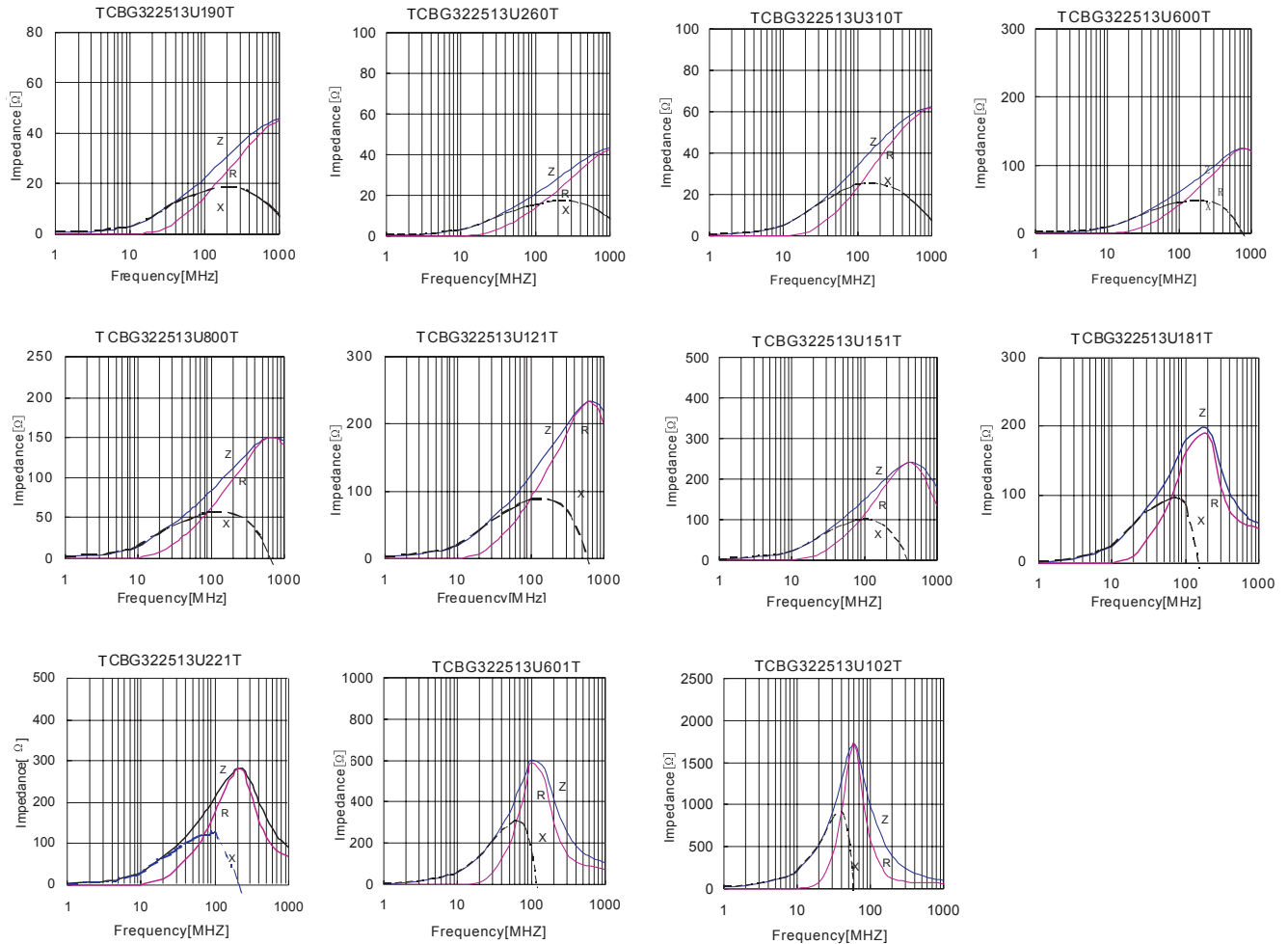
FERRITE CHIP BEADS

TCBG3216 SERIES

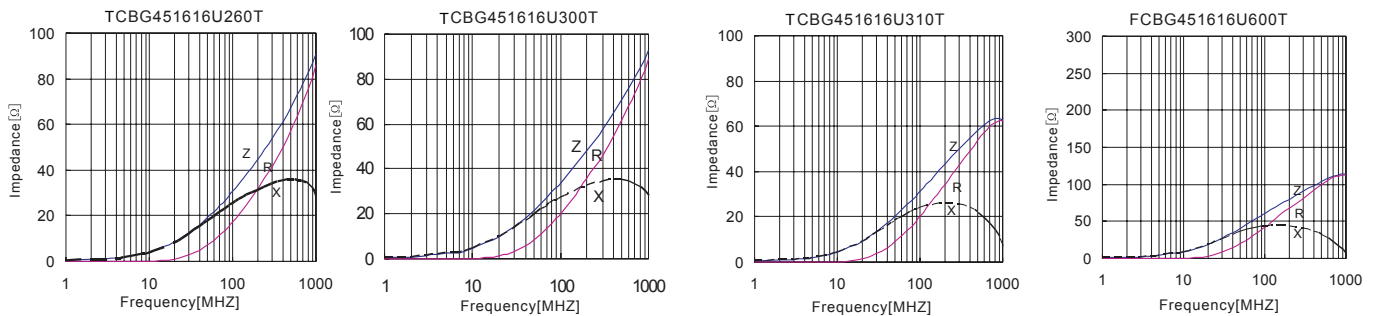


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TCBG3225 SERIES

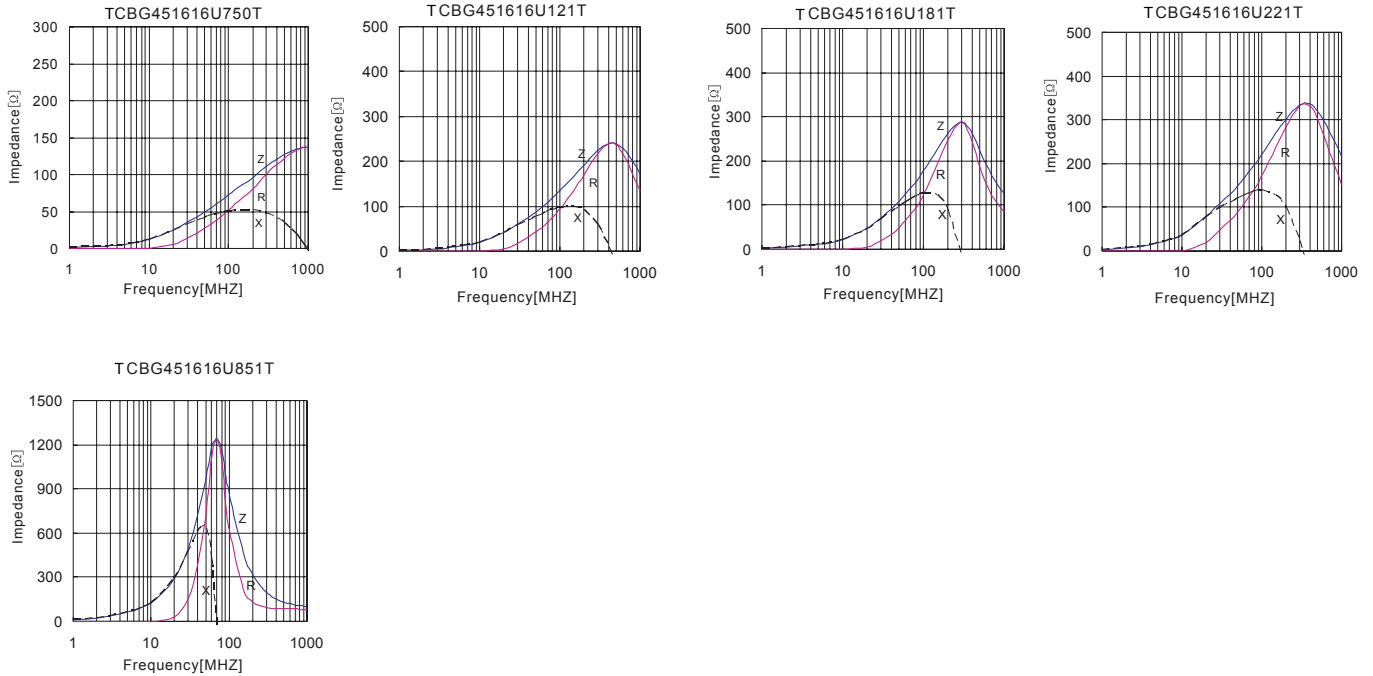


TCBG4516 SERIES



FERRITE CHIP BEADS

TCBG4516 (Cont.)



TCBG4532 SERIES

