


FERRITE CHIP BEADS TCBG Series

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

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.

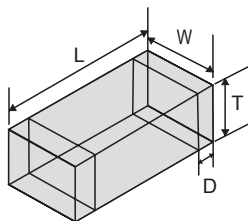
ORDER CODE

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	I _r (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	I _r (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	I _r (mA)Max
TCBG201209U050	0~15	0.08	900
TCBG201209U110	7~15	0.10	900
TCBG201209U260	26 \pm 25%	0.10	900
TCBG201209U310	31 \pm 25%	0.10	900
TCBG201209U500	50 \pm 25%	0.15	900
TCBG201209U600	60 \pm 25%	0.15	900
TCBG201209U800	80 \pm 25%	0.18	500
TCBG201209U101	100 \pm 25%	0.18	400
TCBG201209U121	120 \pm 25%	0.20	400
TCBG201209U151	150 \pm 25%	0.20	400
TCBG201209U181	180 \pm 25%	0.20	300
TCBG201209U221	220 \pm 25%	0.20	300
TCBG201209U301	300 \pm 25%	0.35	300
TCBG201209U501	500 \pm 25%	0.40	300
TCBG201209U601	600 \pm 25%	0.40	300
TCBG201209U801	800 \pm 25%	0.45	200
TCBG201209U102	1000 \pm 25%	0.45	200
TCBG201209U122	1200 \pm 25%	0.60	100
TCBG201209U152	1500 \pm 25%	0.70	100
TCBG201209U202	2000 \pm 25%	0.90	50

TCBG3216

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

FERRITE CHIP BEADS
TCBG3225

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

TCBG4516

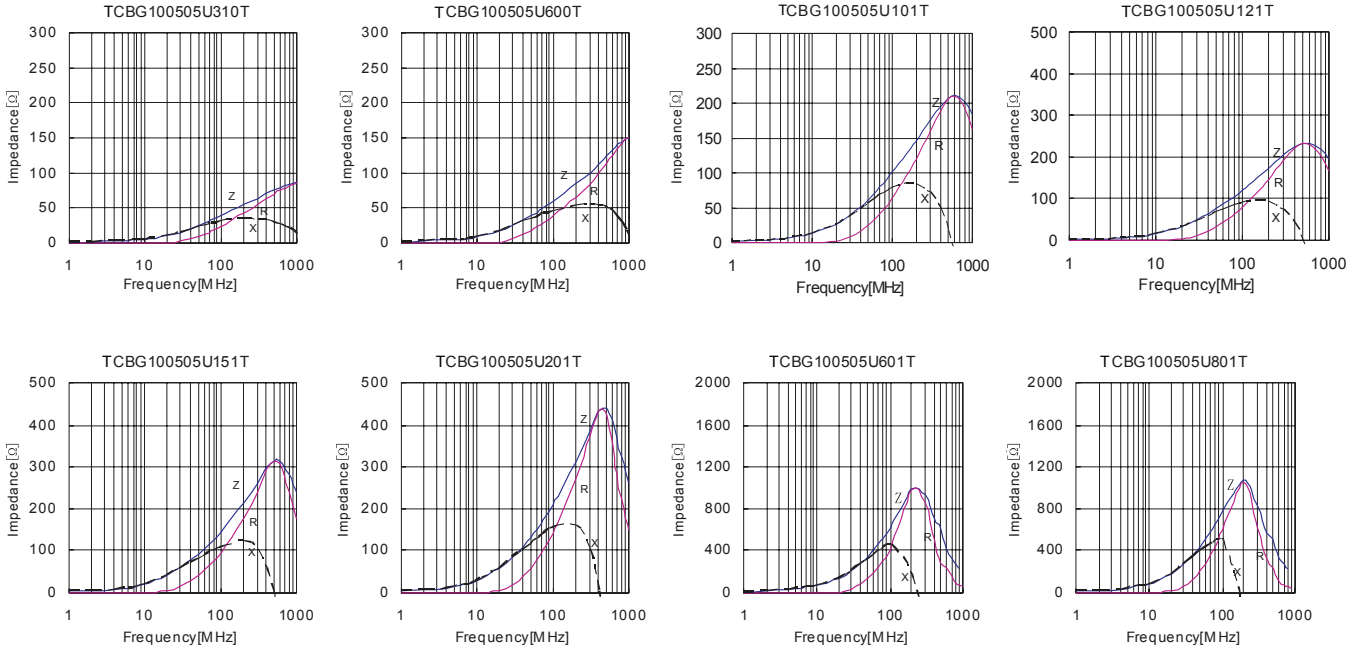
Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	I _r (mA)Max
TCBG451616U190	12~25	0.10	1000
TCBG451616U260	26 \pm 25%	0.10	1000
TCBG451616U310	31 \pm 25%	0.15	1000
TCBG451616U600	60 \pm 25%	0.20	1000
TCBG451616U700	70 \pm 25%	0.25	1000
TCBG451616U800	80 \pm 25%	0.30	1000
TCBG451616U900	90 \pm 25%	0.35	1000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

TCBG4532

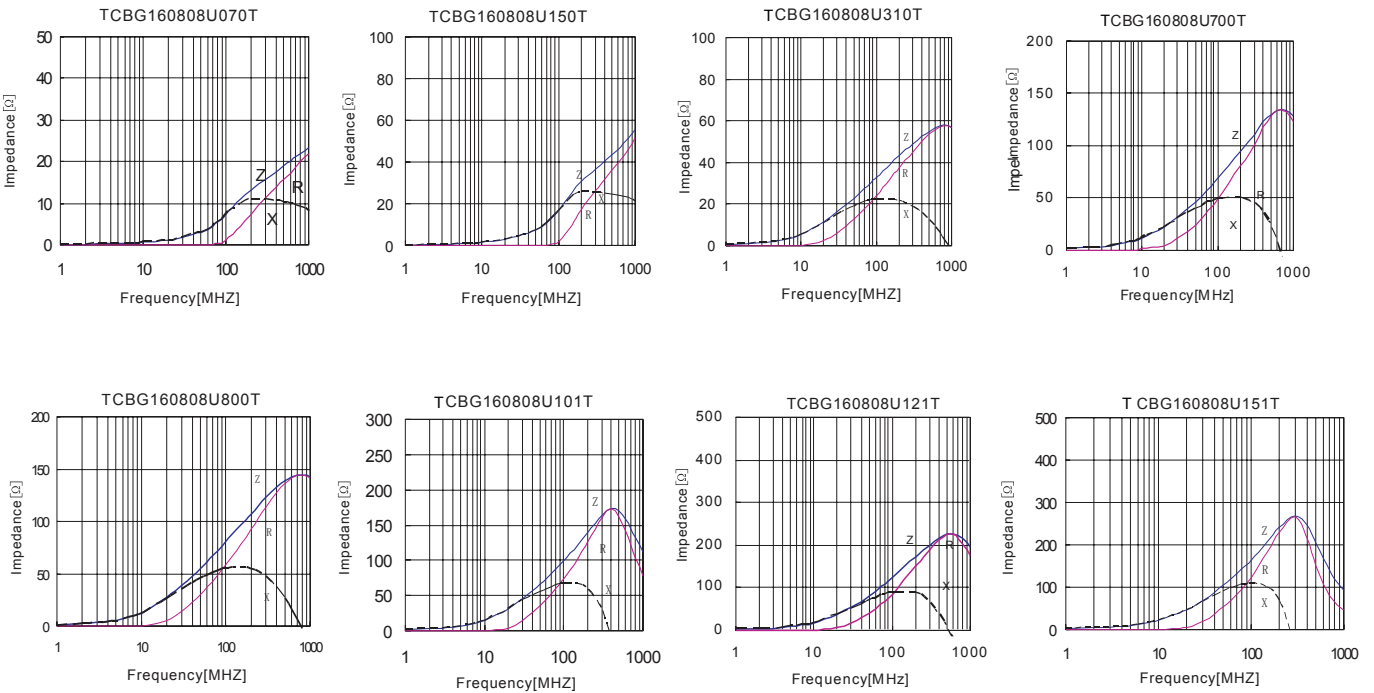
Part No.	Impedance(Ω) @100MHz	DCR (Ω)Max	I _r (mA)Max
TCBG453215U190	12~25	0.10	1000
TCBG453215U380	38 \pm 25%	0.15	1000
TCBG453215U700	70 \pm 25%	0.20	1000
TCBG453215U800	80 \pm 25%	0.20	1000
TCBG453215U101	100 \pm 25%	0.20	500
TCBG453215U121	120 \pm 25%	0.25	500
TCBG453215U151	150 \pm 25%	0.25	500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

FERRITE CHIP BEADS

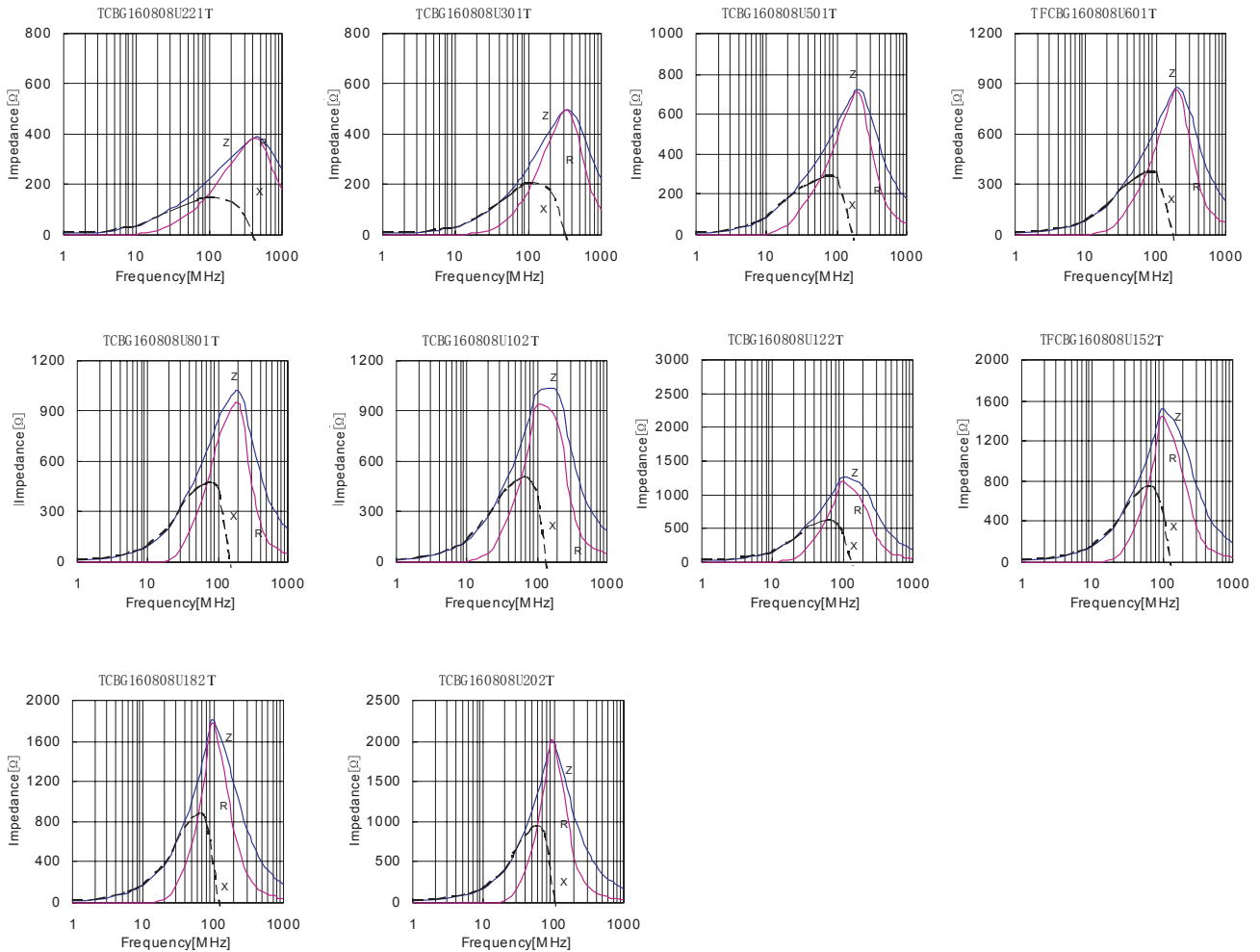
TCBG1005 SERIES



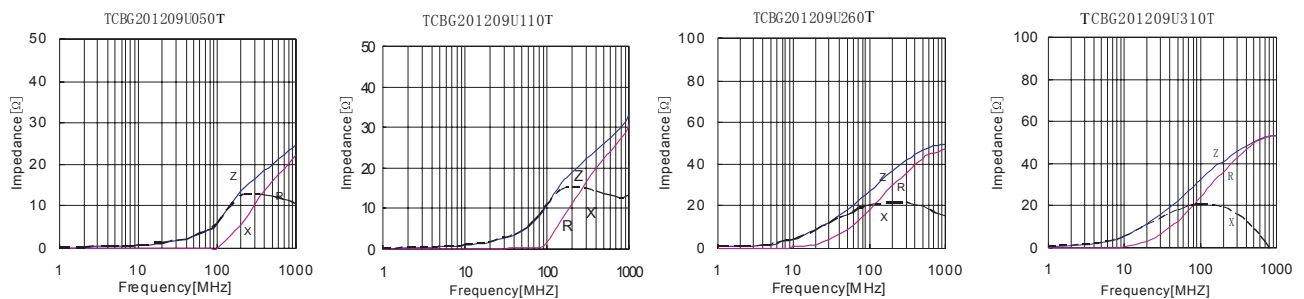
TCBG1608 SERIES



FERRITE CHIP BEADS

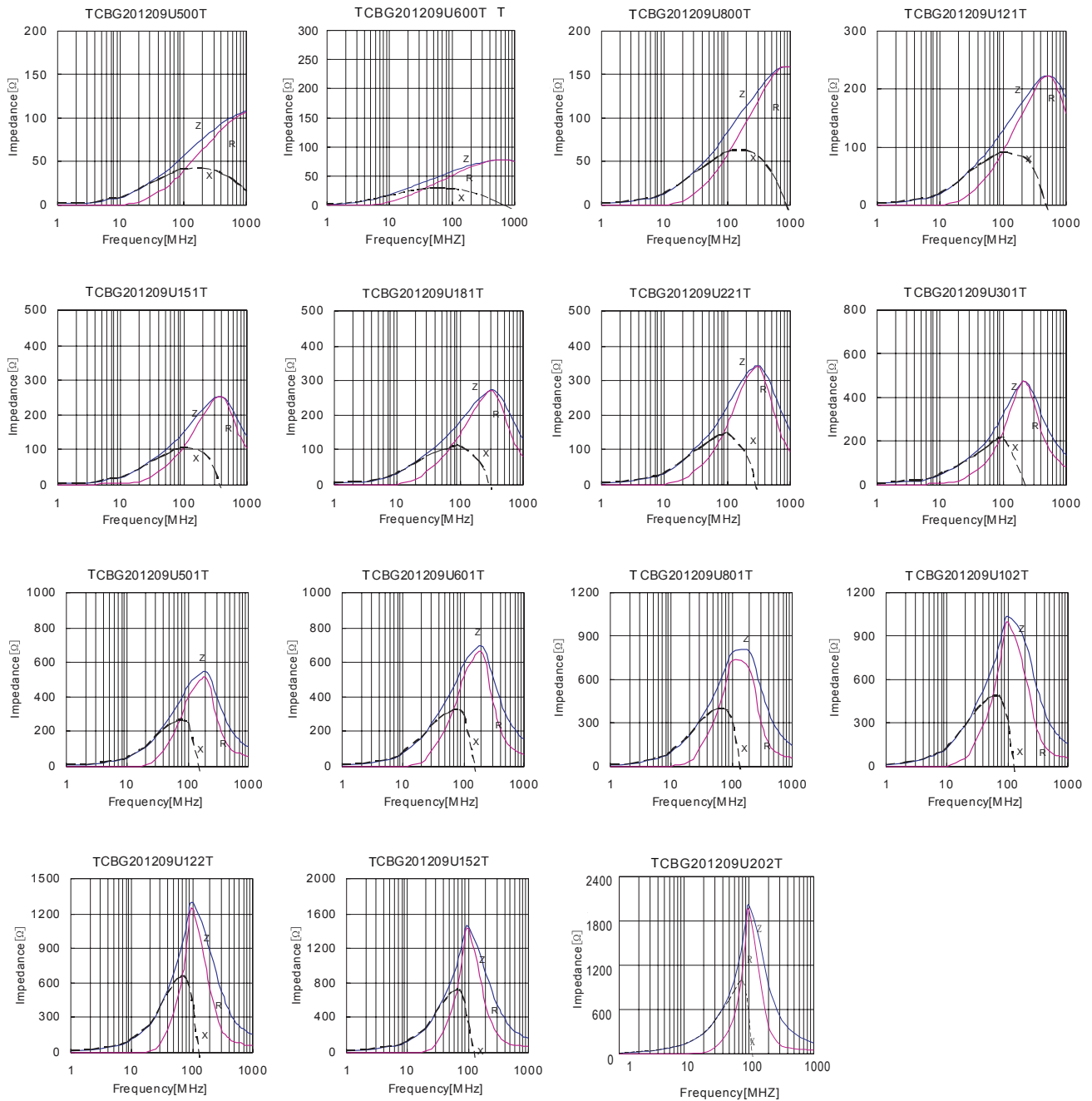


TCBG2012 SERIES



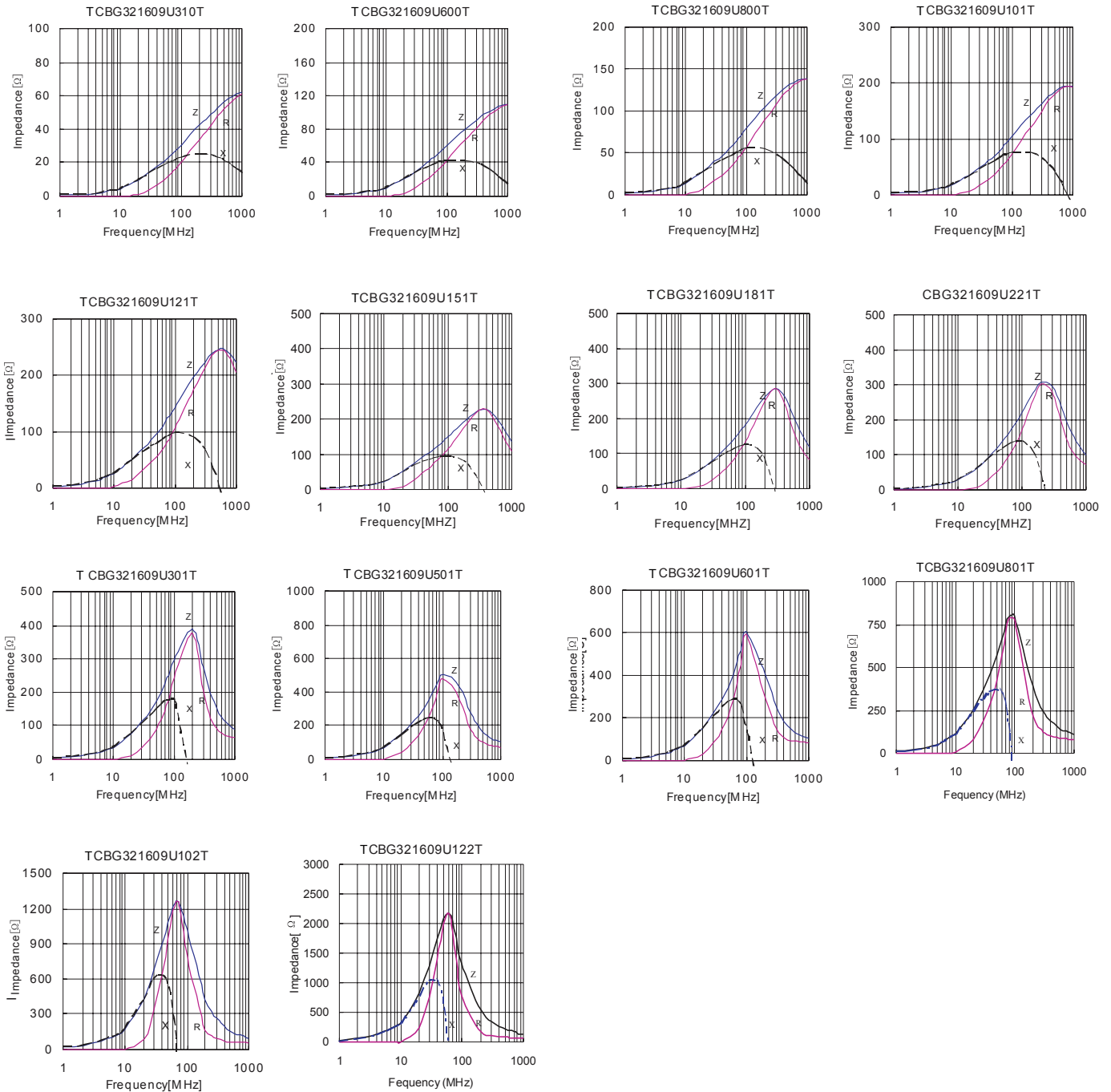
FERRITE CHIP BEADS

TCBG2012 (Cont.)



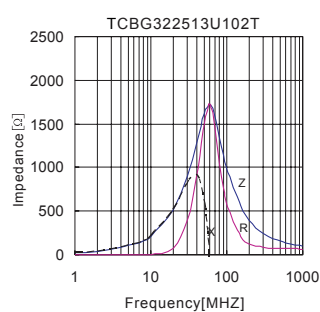
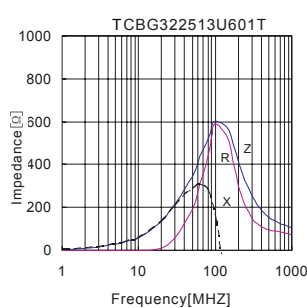
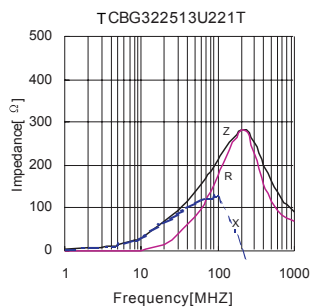
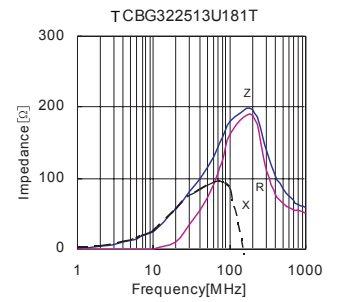
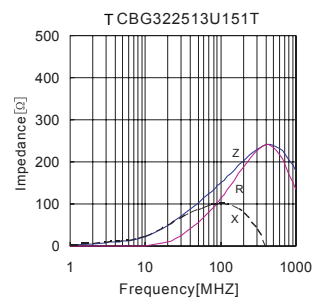
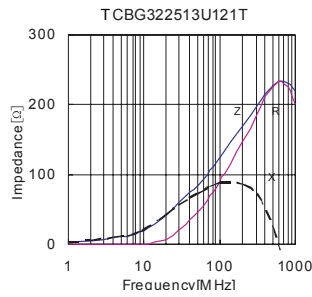
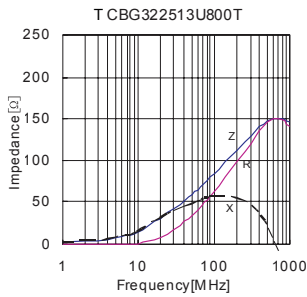
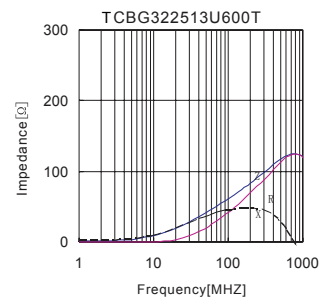
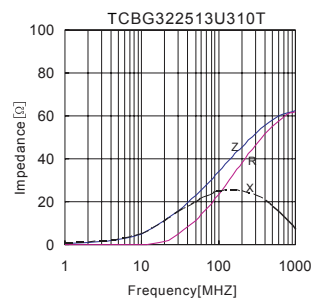
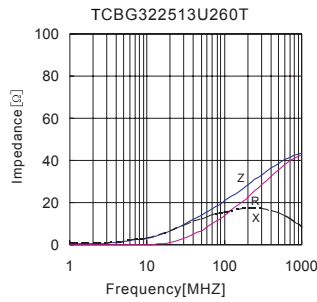
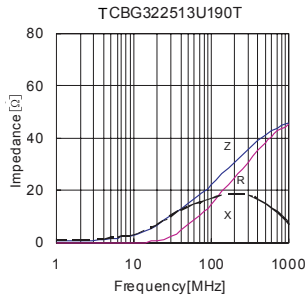
FERRITE CHIP BEADS

TCBG3216 SERIES

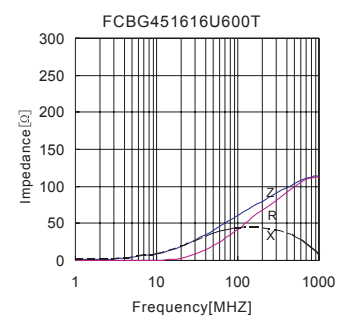
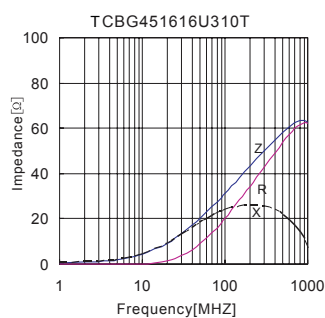
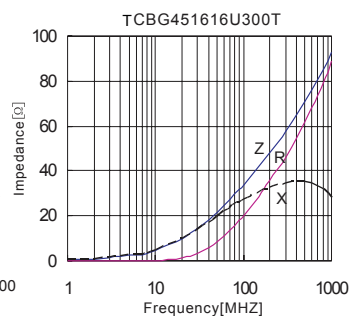
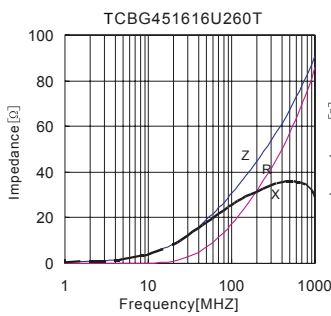


FERRITE CHIP BEADS

TCBG3225 SERIES

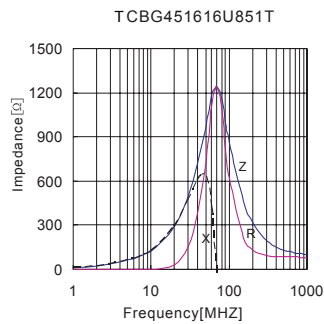
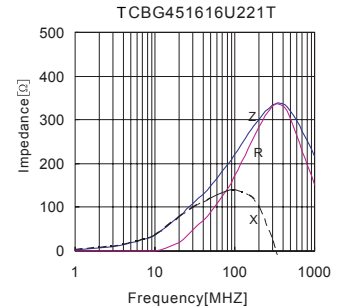
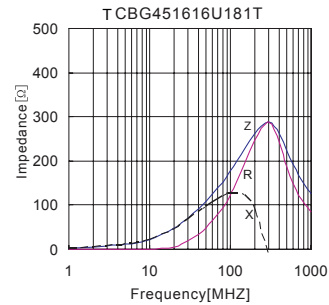
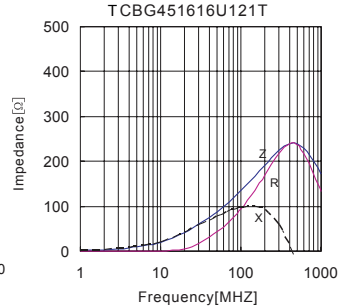
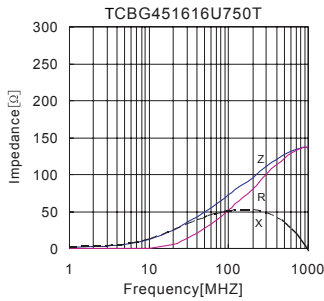


TCBG4516 SERIES



FERRITE CHIP BEADS

TCBG4516 (Cont.)



TCBG4532 SERIES

