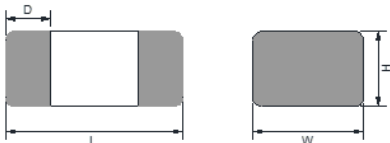


Product outline

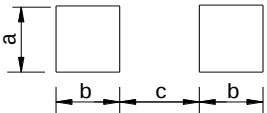
- Ferrite material multilayer chip BEADS,minature size,suitable for SMT process.
- Internal silver printed layers and magnetic shielded structures to minimize crosstalk.
- High impedance in wide range of frequency to suppress EMI.
- Beads for both signal and power line are available.



Dimensions(mm)



Recommended Patterns



Type	L	W	H	D	a	b	c	Packaging (pcs/reel)
201209	2.0± 0.2	1.20 ± 0.2	0.90± 0.2	0.5± 0.3	1.2±0.2	0.8±0.2	1.0±0.2	4000
321609	3.20 ± 0.2	1.60 ± 0.2	0.90± 0.2	0.5± 0.3	1.8±0.2	0.8±0.2	2.0±0.2	4000

Dimensions without tolerance are typical.

Product Identification

FBG **201209** **U** **121** **T**

① ② ③ ④ ⑤

- ① Ferrite Beads Series:
FBG=General use,
FBW=High current beads for Power Lines,
FBM=Super high current beads for Power Lines,
- ② Dimensions: 0603(inch)=1608(mm)=1.6x0.8mm
- ③ U:Internal Code.
- ④ Impedance Value: 260=26 Ω ,121=120 Ω ,102=1000 Ω
- ⑤ Packaging:T=TAPING&REEL

FBG201209 Electrical Characteristics

Part Number	Impedance (Ω) ①	Test Frequency (MHz)/ 50mV	DCR max. (mΩ) ②	Rated Current (A)
FBG201209U090T	5~13	100	40	2.2
FBG201209U260T	26±25%	100	50	1.5
FBG201209U310T	31±25%	100	50	1.5
FBG201209U600T	60±25%	100	100	1.0
FBG201209U800T	80±25%	100	100	1.0
FBG201209U101T	100±25%	100	150	0.8
FBG201209U121T	120±25%	100	150	0.8
FBG201209U151T	150±25%	100	180	0.7
FBG201209U181T	180±25%	100	180	0.7
FBG201209U221T	220±25%	100	200	0.6
FBG201209U301T	300±25%	100	200	0.6
FBG201209U501T	500±25%	100	300	0.55
FBG201209U601T	600±25%	100	300	0.55
FBG201209U801T	800±25%	100	350	0.5
FBG201209U102T	1000±25%	100	350	0.5
FBG201209U122T	1200±25%	100	400	0.5
FBG201209U152T	1500±25%	100	400	0.5
FBG201209U202T	2000±25%	100	450	0.5
FBG201209U252T	2500±25%	50	500	0.4

FBW201209 Electrical Characteristics

Part Number	Impedance (Ω) ①	Test Frequency (MHz)/ 50mV	DCR max. (mΩ) ②	Rated Current (A)
FBW201209U090T	5~13	100	20	3.0
FBW201209U190T	12~25	100	20	3.0
FBW201209U310T	31±25%	100	40	3.0
FBW201209U600T	60±25%	100	50	3.0
FBW201209U800T	80±25%	100	60	3.0
FBW201209U101T	100±25%	100	80	2.5
FBW201209U121T	120±25%	100	80	2.5
FBW201209U151T	150±25%	100	100	2.5
FBW201209U181T	180±25%	100	120	2.0
FBW201209U221T	220±25%	100	130	2.0
FBW201209U301T	300±25%	100	130	2.0
FBW201209U501T	500±25%	100	220	1.5
FBW201209U601T	600±25%	100	220	1.5
FBW201209U801T	800±25%	100	250	1.0
FBW201209U102T	1000±25%	100	250	1.0
FBW201209U122T	1200±25%	100	280	0.8
FBW201209U152T	1500±25%	100	400	0.7
FBW201209U202T	2000±25%	100	400	0.7
FBW201209U252T	2500±25%	50	450	0.6

All specifications are subject to change without notice.

FBM201209 Electrical Characteristics

Part Number	Impedance (Ω) ①	Test Frequency (MHz)/ 50mV	DCR max. (mΩ)②	Rated Current (A)
FBM201209U090T	5~13	100	10	6.0
FBM201209U190T	12~25	100	10	6.0
FBM201209U310T	31±25%	100	10	6.0
FBM201209U600T	60±25%	100	30	4.0
FBM201209U800T	80±25%	100	40	4.0
FBM201209U101T	100±25%	100	45	4.0
FBM201209U121T	120±25%	100	45	4.0
FBM201209U151T	150±25%	100	70	3.0
FBM201209U181T	180±25%	100	70	3.0
FBM201209U221T	220±25%	100	70	3.0
FBM201209U301T	300±25%	100	80	2.5
FBM201209U501T	500±25%	100	90	2.5
FBM201209U601T	600±25%	100	100	2.0
FBM201209U801T	800±25%	100	120	1.5
FBM201209U102T	1000±25%	100	120	1.5

FBG321609 Electrical Characteristics

Part Number	Impedance (Ω) ①	Test Frequency (MHz)/ 50mV	DCR max (mΩ) .②	Rated Current (A)
FBG321609U090T	5~13	100	50	2.0
FBG321609U260T	26±25%	100	50	2.0
FBG321609U600T	60±25%	100	100	1.0
FBG321609U750T	75±25%	100	100	1.0
FBG321609U800T	80±25%	100	100	1.0
FBG321609U101T	100±25%	100	100	1.0
FBG321609U121T	120±25%	100	100	1.0
FBG321609U151T	150±25%	100	150	1.0
FBG321609U181T	180±25%	100	150	1.0
FBG321609U221T	220±25%	100	200	0.8
FBG321609U301T	300±25%	100	200	0.8
FBG321609U501T	500±25%	100	300	0.6
FBG321609U601T	600±25%	100	300	0.6
FBG321609U801T	800±25%	100	350	0.6
FBG321609U102T	1000±25%	100	350	0.6
FBG321609U122T	1200±25%	100	600	0.3
FBG321609U152T	1500±25%	50	600	0.3
FBG321609U202T	2000±25%	50	1000	0.1
FBG321609U252T	2500±25%	50	1200	0.05
FBG321609U302T	3000±25%	50	1500	0.05

①Impedance : HP4291A+16193A, or equivalent.

②Rdc: YOKOGAWA TYPE7561, or equivalent.

All specifications are subject to change without notice.

FBW321609 Electrical Characteristics

Part Number	Impedance (Ω) ①	Test Frequency (MHz)/ 50mV	DCR max. (mΩ) ②	Rated Current (A)
FBW321609U090T	5~13	100	40	4.0
FBW321609U260T	26±25%	100	40	3.0
FBW321609U310T	31±25%	100	40	3.0
FBW321609U500T	50±25%	100	40	3.0
FBW321609U600T	60±25%	100	40	3.0
FBW321609U800T	80±25%	100	70	3.0
FBW321609U101T	100±25%	100	70	3.0
FBW321609U121T	120±25%	100	70	3.0
FBW321609U151T	150±25%	100	100	2.5
FBW321609U181T	180±25%	100	100	2.5
FBW321609U221T	220±25%	100	110	2.5
FBW321609U301T	300±25%	100	150	2.0
FBW321609U501T	500±25%	100	200	2.0
FBW321609U601T	600±25%	100	200	2.0
FBW321609U801T	800±25%	100	250	2.0
FBW321609U102T	1000±25%	100	250	2.0
FBW321609U122T	1200±25%	100	350	1.5
FBW321609U152T	1500±25%	50	450	0.5
FBW321609U182T	1800±25%	50	600	0.5
FBW321609U202T	2000±25%	50	700	0.3
FBW321609U252T	2500±25%	50	900	0.2

FBM321609 Electrical Characteristics

Part Number	Impedance (Ω) ①	Test Frequency (MHz)/ 50mV	DCR max. (mΩ) ②	Rated Current (A)
FBM321609U090T	5~13	100	10	6.0
FBM321609U260T	26±25%	100	15	6.0
FBM321609U310T	31±25%	100	20	5.0
FBM321609U500T	50±25%	100	20	5.0
FBM321609U600T	60±25%	100	25	5.0
FBM321609U800T	80±25%	100	35	4.0
FBM321609U101T	100±25%	100	35	4.0
FBM321609U121T	120±25%	100	35	4.0
FBM321609U151T	150±25%	100	45	3.0
FBM321609U181T	180±25%	100	55	3.0
FBM321609U221T	220±25%	100	55	3.0
FBM321609U301T	300±25%	100	65	2.5
FBM321609U401T	400±25%	100	75	2.5
FBM321609U501T	500±25%	100	80	2.5
FBM321609U601T	600±25%	100	80	2.2
FBM321609U801T	800±25%	100	110	2.1
FBM321609U102T	1000±25%	100	120	2.1

① Impedance : HP4291A+16193A, or equivalent.

② Rdc: YOKOGAWA TYPE7561, or equivalent.