



Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

REMINDERS

- ◆ Product information in this catalog is subject to change without notice, and is for reference only. Therefore, please contact GOTREND Technology to check for the latest information before practical application or usage of the products.
- ◆ This catalog contains only typical specifications, please contact GOTREND Technology for further details if you can not find special components or information you need in this catalogue. Please also approve our product specifications or transact the approval sheet for product specifications before ordering.
- ◆ This catalogue only applies to products purchased through GOTREND Technolgy or its official agencies. This catalogue does not apply to products that are purchased through other third parties.
- ◆ Please read Attention and CAUTION note (for storage, operating, rating, soldering, mounting and handling) in this catalog to ensure product proper usage.
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- ◆ Information and data provided in the brochure can and do vary in different applications, and actual performance may vary over time.
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- ◆ Products listed in this catalog are intended for general electronic device usage under normal operation and use condition including telecommunication equipment, home appliances, sports equipment AV equipment, industrial machine, office equipment etc. Please take note that our products are not designed, intended or authorized for use in below mentioned applications unless explicitly agreed in writing between the parties to avoid product failure that could result in situation where personal injury or death could occur.

- (1) Aerospace/Aviation equipment
- (2) Atomic energy-related equipment
- (3) Disaster prevention/crime prevention equipment
- (4) Electric heating apparatus, burning equipment
- (5) Medical equipment
- (6) Military equipment
- (7) Power-generation control equipment
- (8) Public information-processing equipment
- (9) Safety equipment
- (10) Seabed equipment
- (11) Transportation control equipment
- (12) Transportation equipment (cars, electric trains, ships, etc.)
- (13) Other applications that are not considered general-purpose applications

- ◆ Our manufacturing sites fully compliance with requirement regarding the quality management system in the automotive industry under the IATF 16949 standard. GOTREND Technology respect individual agreements with reference to customer requirements and customer specific requirements (CSR). We will like to emphasize that only requirements mutually agreed upon will in implemented in our Quality Management System taking into consideration that IATF 16949 may appear to support the acceptance of unilateral requirements. We will only legally bind to this individually agreed upon agreement under the IATF 16949 standard.
- ◆ The product itself is a powder metallurgy product, so the structure is relatively fragile, and it should not be used for products that are easy to fall. In addition, when this product is assembled, it should avoid collision with the tool or mechanism shell. 
- ◆ It is not recommended to use hot air gun for disassembling of this product. When using of hot air gun to repair other parts, please also take note that long time or high temperature exposure of this product will also damage the inductance device. If you need to use the hot air gun to disassemble the product, it is recommended to adjust the hot air gun temperature to 380 deg.C±5 deg.C. The blower head of the hot air gun should be perpendicular and at least 1cm away from the product. After heating the product to the tin material melting point, use tweezers to remove the product from the PCB. 

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Features & Application :

- * EMI Suppressor for Wide Band / Narrow Band / High Current
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard.
- * Mobile Device / Handheld Device / LowProfile Device / Panel...



(Picture for reference only)

Part No. Example :

PN	:	GBD	201209	P	GA	601	N
-----	:	-----	-----	---	-----	-----	---
ID	:	1	2	3	4	5	6
1	:	GBD : GOTREND Series					
2	:	201209 : Length 2.0mm X Width 1.2mm x Height 0.9mm					
3	:	P : Pb < 1000ppm					
4	:	GA : Normal Curve (General purpose use) GB : Sharp Curve (Narrow band) GH : High-Current GF : High-Frequency					
5	:	601 : Impedance (ohm) = 600 ohm					
6	:	N : Tolerance M = +/-20%, N = +/-25%					

Basic Information :

Made in	China
Pin Foot	SMD
Shielding	Yes
J-STD-020	MSL Level 1
RoHS	Compliant
REACH	Compliant
Halogen	Free

Operating & Storage Condition :

- * Operating Temp -40 ~ +125 deg.C (Including self - temperature rise)
- * Storage Temp 1. -10 ~ +45 deg.C , 50 ~ 60% RH (Product with taping)
2. -40 ~ +125 deg.C (On board)
- * Storage Life Time 12 Month (Less than 40 deg.C and 60% RH)

Attention & Caution :

- * Keep out of Splashing water or salt water
- * Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- Vibrations or shocks which exceed the specified condition
- Dew condense
- Layout near the edge of PCB
- Over flexure after SMT mounting & PCBA



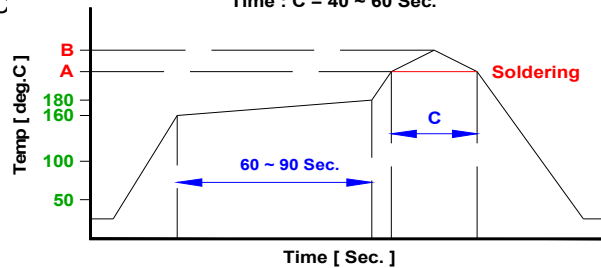
- * Pin foot or SMD pad solderability: Pb free type is best within 6 months after delivery
- * Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- * Caution for human life relative applications : PLS contact & consult with GOTREND team in design stage.

Test Condition :

- * Equipment HP4284A , HP42841A - L , Q , DCR , IDC
HP8753D Network analyzer - SRF
- * Standard Atmosphere Conditions:
Ambient Temperature 20 ± 15 deg.C
Humidity RH 65 ± 20%
- * If there may be any doubt on the test result ,
Measurement shall be made within the following limits:
Ambient Temperature 25 ± 5 deg.C
Humidity RH 75 ± 10%

Recommend IR Reflow Curve : GTX-IR-FILE001

Lead Free Solder : A = 217 deg.C , B = 245+/-5 deg.C
Time : C = 40 ~ 60 Sec.

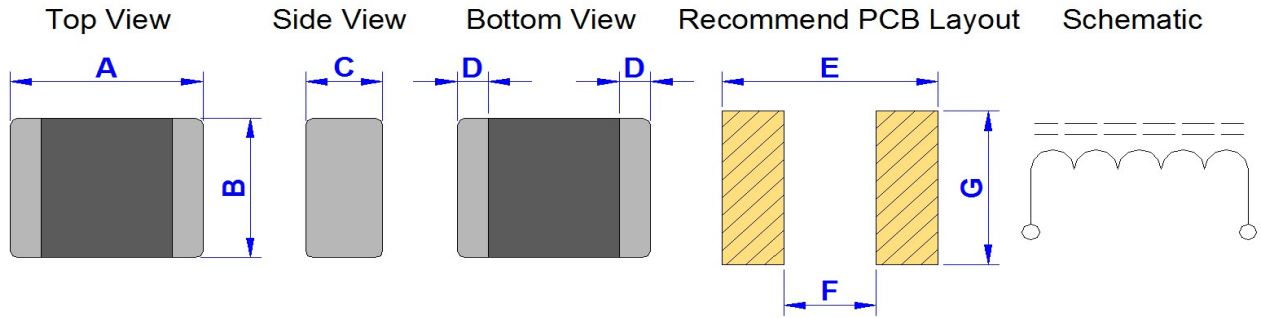


Notice : Iron Soldering , Solder < 30 Watt ,
Direct touch the terminal x 3 Sec. Max. @ 350 deg.C

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GBD060303PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
060303	0.60+/-0.03	0.30+/-0.03	0.30+/-0.03	0.10 ~ 0.20	0.70	0.30	0.40

Electrical Characteristics :

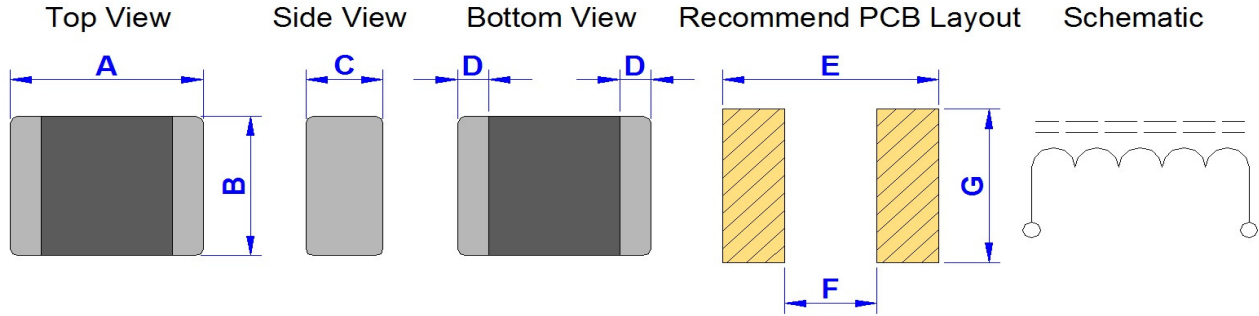
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD060303PGA121N	120	100	0.45	200
GBD060303PGA151N	150	100	0.50	200

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GBD100505PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
100505	1.00+/-0.15	0.50+/-0.15	0.50+/-0.15	0.25+/-0.15	1.10	0.40	0.60

Electrical Characteristics :

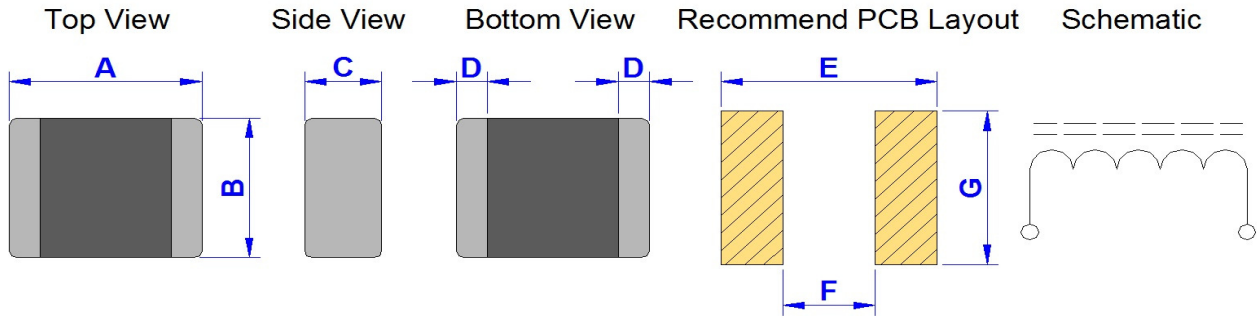
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD100505PGA060N	6	100	0.05	500
GBD100505PGA100N	10	100	0.05	500
GBD100505PGA300N	30	100	0.20	300
GBD100505PGA330N	33	100	0.20	300
GBD100505PGA400N	40	100	0.30	300
GBD100505PGA470N	47	100	0.20	500
GBD100505PGA600N	60	100	0.40	200
GBD100505PGA750N	75	100	0.40	300
GBD100505PGA800N	80	100	0.40	200
GBD100505PGA101N	100	100	0.45	200
GBD100505PGA121N	120	100	0.50	200
GBD100505PGA221N	220	100	0.50	200
GBD100505PGA241N	240	100	0.50	200
GBD100505PGA301N	300	100	0.75	100
GBD100505PGA481N	480	100	0.80	200
GBD100505PGA601N	600	100	1.00	200
GBD100505PGA102N	1000	100	1.50	100
GBD100505PGA152N	1500	100	2.00	60

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GBD160808PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
160808	1.60+/-0.15	0.80+/-0.15	0.80+/-0.15	0.40+/-0.20	1.80	0.60	1.00

Electrical Characteristics :

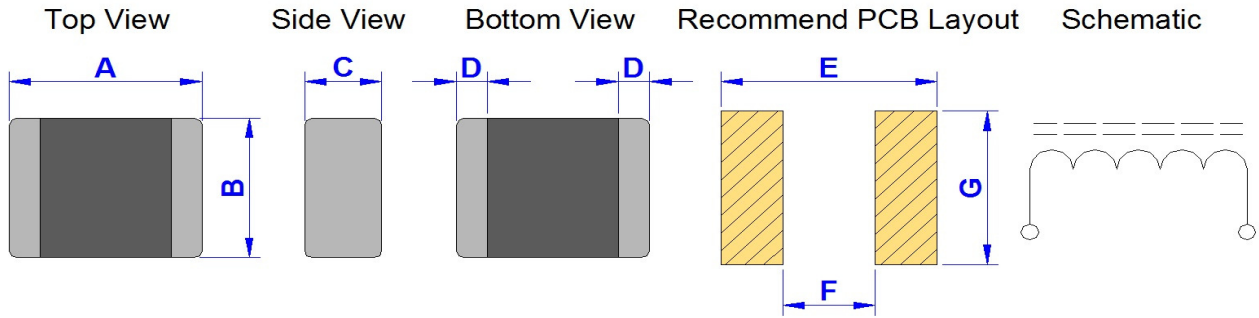
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD160808PGA060N	6	100	0.05	500
GBD160808PGA100N	10	100	0.02	500
GBD160808PGA110N	11	100	0.05	500
GBD160808PGA190N	19	100	0.08	500
GBD160808PGA220N	22	100	0.10	400
GBD160808PGA250N	25	100	0.10	400
GBD160808PGA260N	26	100	0.10	400
GBD160808PGA300N	30	100	0.10	400
GBD160808PGA310N	31	100	0.10	400
GBD160808PGA400N	40	100	0.10	400
GBD160808PGA470N	47	100	0.10	300
GBD160808PGA500N	50	100	0.10	300
GBD160808PGA600N	60	100	0.10	300
GBD160808PGA700N	70	100	0.15	300
GBD160808PGA750N	75	100	0.15	300
GBD160808PGA800N	80	100	0.15	300
GBD160808PGA900N	90	100	0.20	300
GBD160808PGA101N	100	100	0.20	300
GBD160808PGA121N	120	100	0.25	300
GBD160808PGA151N	150	100	0.30	200
GBD160808PGA181N	180	100	0.30	200
GBD160808PGA201N	200	100	0.30	200
GBD160808PGA221N	220	100	0.30	200
GBD160808PGA241N	240	100	0.40	200
GBD160808PGA301N	300	100	0.40	200
GBD160808PGA331N	330	100	0.50	200

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GBD160808PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
160808	1.60+/-0.15	0.80+/-0.15	0.80+/-0.15	0.40+/-0.20	1.80	0.60	1.00

Electrical Characteristics :

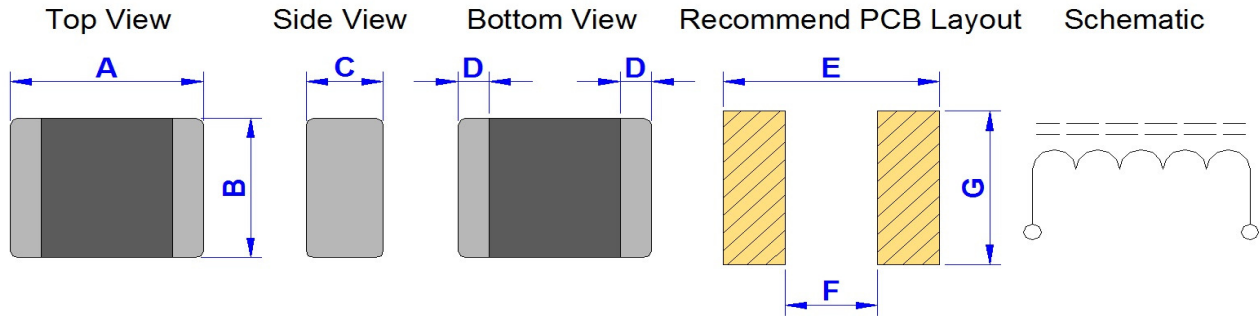
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD160808PGA401N	400	100	0.30	400
GBD160808PGA451N	450	100	0.50	200
GBD160808PGA471N	470	100	0.50	200
GBD160808PGA501N	500	100	0.50	200
GBD160808PGA601N	600	100	0.50	200
GBD160808PGA751N	750	100	0.70	200
GBD160808PGA102N	1000	100	0.70	200
GBD160808PGA152N	1500	100	1.00	50
GBD160808PGA222N	2200	100	1.20	50
GBD160808PGA252N	2500	100	1.30	50

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GBD201209PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
201209	2.00+/-0.20	1.25+/-0.20	0.90+/-0.20	0.50+/-0.30	2.30	1.30	1.30

Electrical Characteristics :

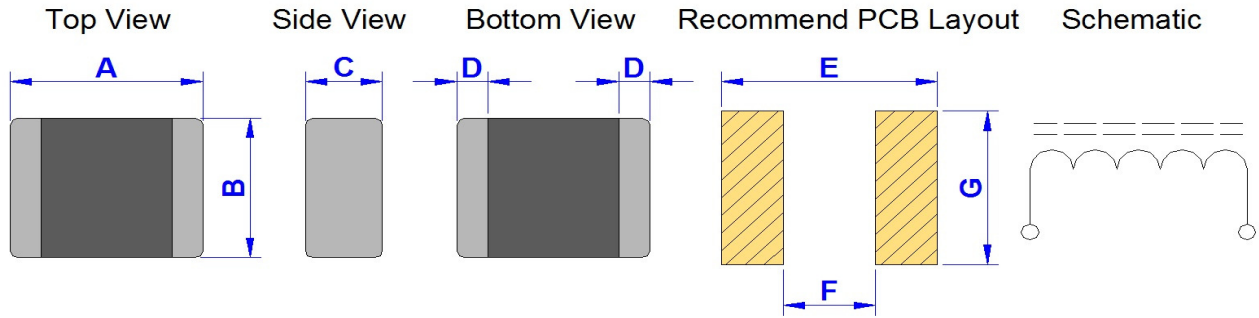
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD201209PGA070N	7	100	0.10	600
GBD201209PGA090N	9	100	0.10	600
GBD201209PGA110N	11	100	0.10	600
GBD201209PGA170N	17	100	0.10	600
GBD201209PGA190N	19	100	0.10	600
GBD201209PGA220N	22	100	0.10	600
GBD201209PGA260N	26	100	0.10	600
GBD201209PGA300N	30	100	0.10	600
GBD201209PGA310N	31	100	0.10	600
GBD201209PGA320N	32	100	0.10	300
GBD201209PGA400N	40	100	0.10	500
GBD201209PGA470N	47	100	0.10	500
GBD201209PGA500N	50	100	0.10	500
GBD201209PGA600N	60	100	0.15	500
GBD201209PGA700N	70	100	0.15	500
GBD201209PGA800N	80	100	0.15	500
GBD201209PGA900N	90	100	0.15	500
GBD201209PGA101N	100	100	0.25	300
GBD201209PGA121N	120	100	0.25	300
GBD201209PGA151N	150	100	0.25	300
GBD201209PGA201N	200	100	0.30	300
GBD201209PGA221N	220	100	0.30	300
GBD201209PGA301N	300	100	0.30	300
GBD201209PGA331N	330	100	0.30	300
GBD201209PGA401N	400	100	0.30	300
GBD201209PGA451N	450	100	0.40	300

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GBD201209PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
201209	2.00+/-0.20	1.25+/-0.20	0.90+/-0.20	0.50+/-0.30	2.30	1.30	1.30

Electrical Characteristics :

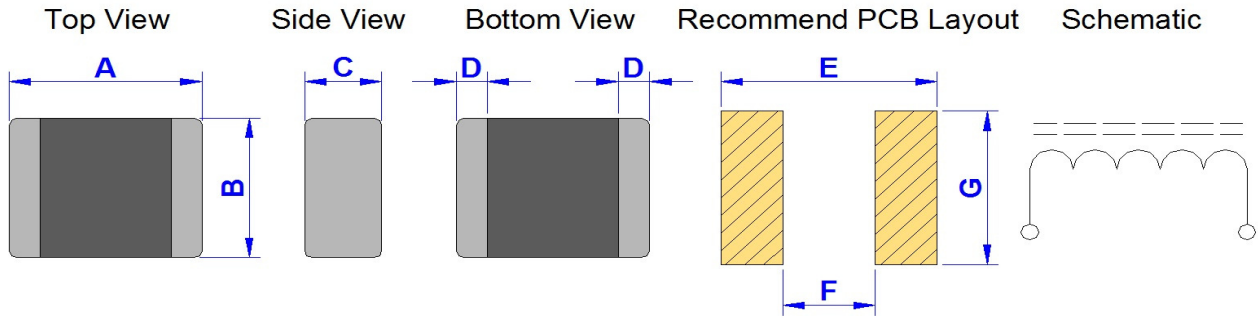
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD201209PGA471N	470	100	0.40	300
GBD201209PGA501N	500	100	0.40	300
GBD201209PGA601N	600	100	0.40	300
GBD201209PGA751N	750	100	0.50	200
GBD201209PGA102N	1000	100	0.50	200
GBD201209PGA122N	1200	100	0.60	200
GBD201209PGA152N	1500	100	0.60	200
GBD201209PGA202N	2000	100	0.60	200
GBD201209PGA222N	2200	100	0.60	200
GBD201209PGA252N	2500	100	0.70	200
GBD201209PGA272N	2700	100	0.70	200

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GBD321611PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
321611	3.20+/-0.20	1.60+/-0.20	1.10+/-0.20	0.70+/-0.30	4.40	2.20	2.06

Electrical Characteristics :

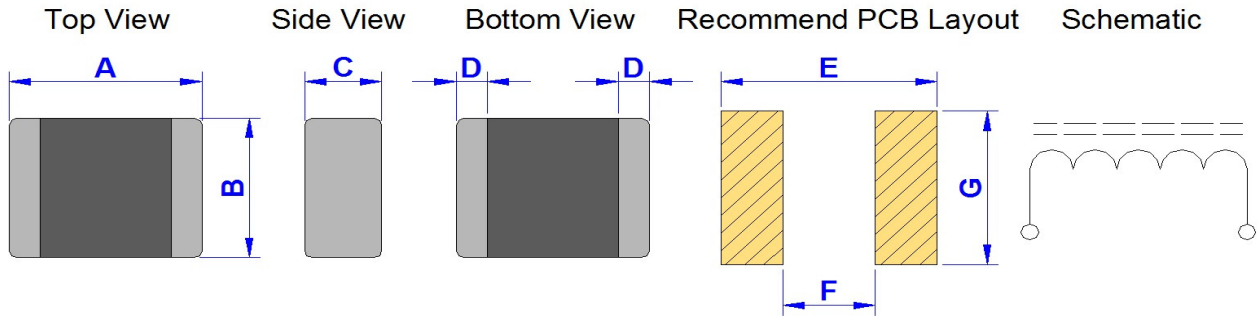
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD321611PGA110N	11	100	0.05	600
GBD321611PGA190N	19	100	0.05	600
GBD321611PGA260N	26	100	0.05	600
GBD321611PGA300N	30	100	0.05	600
GBD321611PGA310N	31	100	0.05	600
GBD321611PGA320N	32	100	0.05	600
GBD321611PGA470N	47	100	0.10	500
GBD321611PGA500N	50	100	0.10	500
GBD321611PGA600N	60	100	0.10	500
GBD321611PGA700N	70	100	0.10	500
GBD321611PGA800N	80	100	0.15	500
GBD321611PGA900N	90	100	0.15	500
GBD321611PGA101N	100	100	0.15	500
GBD321611PGA121N	120	100	0.15	500
GBD321611PGA151N	150	100	0.15	500
GBD321611PGA201N	200	100	0.20	400
GBD321611PGA221N	220	100	0.20	400
GBD321611PGA301N	300	100	0.20	400
GBD321611PGA401N	400	100	0.20	400
GBD321611PGA471N	470	100	0.20	400
GBD321611PGA501N	500	100	0.20	400
GBD321611PGA601N	600	100	0.30	400
GBD321611PGA102N	1000	50	0.40	200
GBD321611PGA122N	1200	50	0.40	200
GBD321611PGA152N	1500	50	0.45	200
GBD321611PGA202N	2000	30	0.60	200
GBD321611PGA272N	2700	30	0.60	200

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GBD321616PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
321616	3.20+/-0.20	1.60+/-0.20	1.60+/-0.20	0.51+/-0.20	4.40	2.20	2.06

Electrical Characteristics :

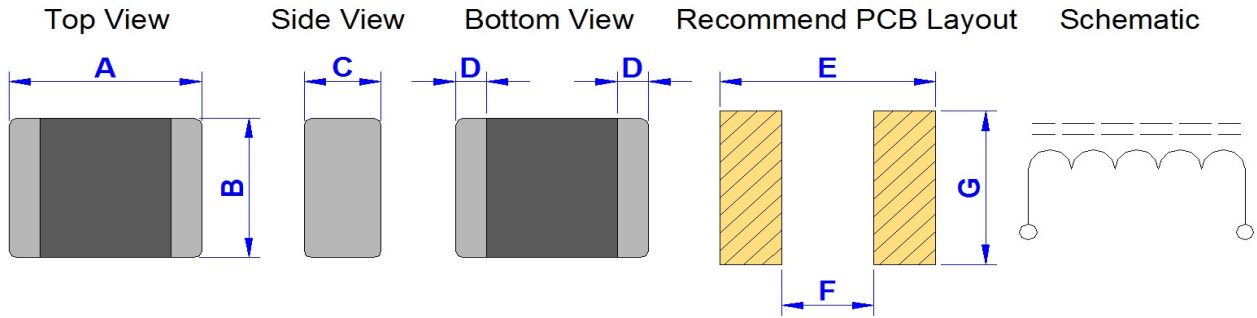
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD321616PGA250N	25	100	0.10	500
GBD321616PGA600N	60	100	0.20	500
GBD321616PGA700N	70	100	0.20	500

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GBD322513PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
322513	3.20+/-0.20	2.50+/-0.20	1.30+/-0.20	0.80+/-0.20	4.06	2.13	2.74

Electrical Characteristics :

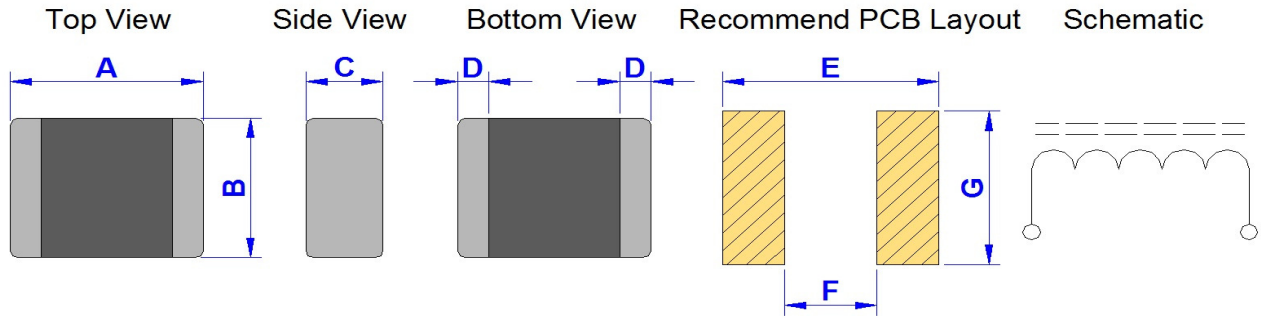
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD322513PGA320N	32	100	0.20	500
GBD322513PGA600N	60	100	0.20	500
GBD322513PGA900N	90	100	0.20	500

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GBD451616PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
451616	4.50+/-0.20	1.60+/-0.20	1.60+/-0.20	0.80+/-0.20	5.70	2.70	2.24

Electrical Characteristics :

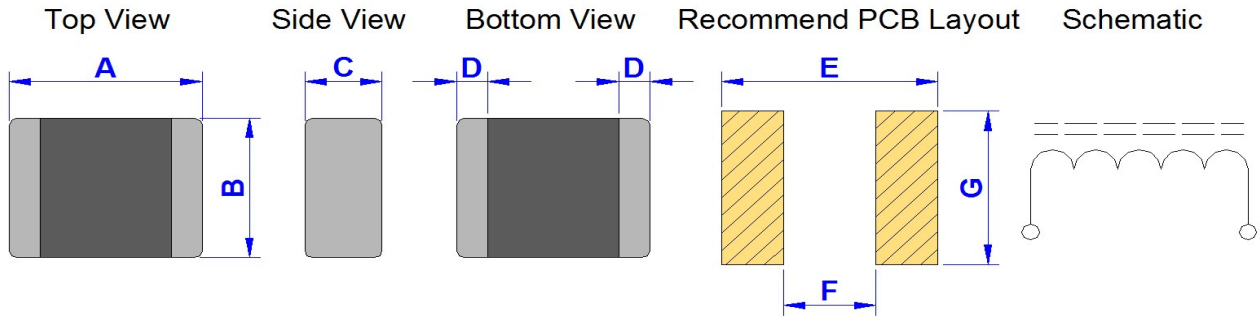
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD451616PGA500N	50	100	0.20	600
GBD451616PGA600N	60	100	0.20	600
GBD451616PGA800N	80	100	0.20	600
GBD451616PGA101N	100	100	0.30	500
GBD451616PGA151N	150	100	0.30	500
GBD451616PGA171N	170	100	0.30	500

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD453215PGA-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
453215	4.50+/-0.20	3.20+/-0.20	1.50+/-0.20	0.80+/-0.20	5.90	2.57	4.22

Electrical Characteristics :

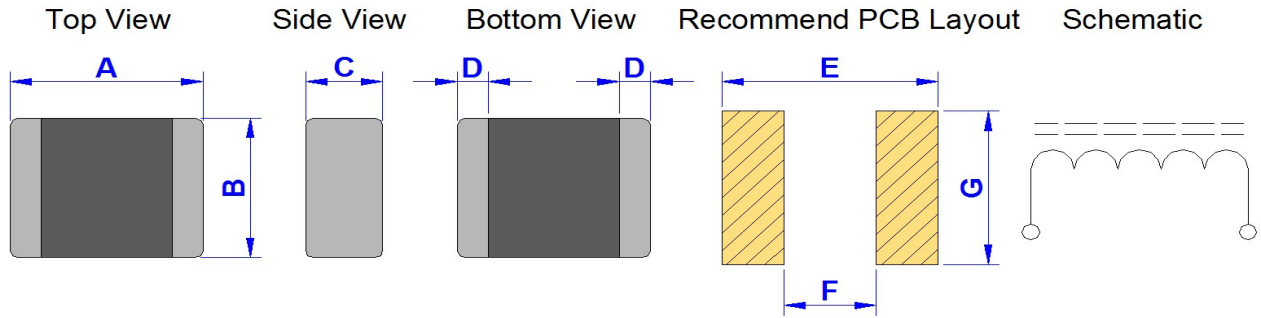
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD453215PGA700N	70	100	0.30	500
GBD453215PGA121N	120	100	0.30	500

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD100505PGB-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
100505	1.00+/-0.15	0.50+/-0.15	0.50+/-0.15	0.25+/-0.15	1.10	0.40	0.60

Electrical Characteristics :

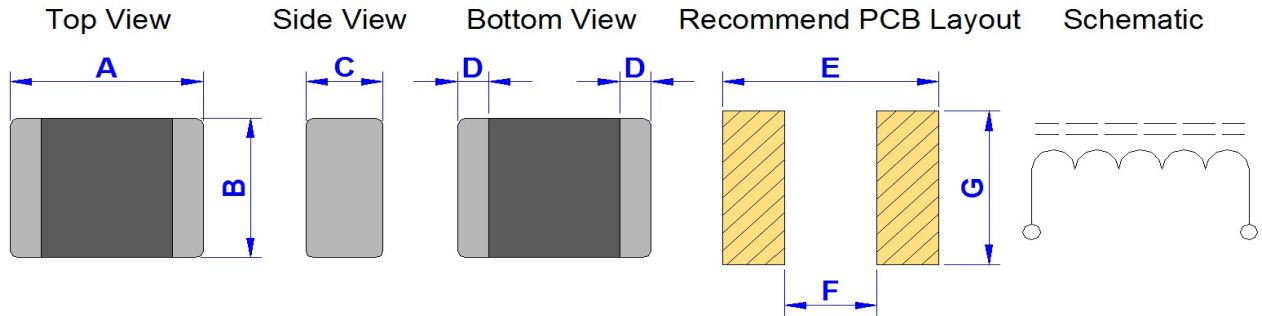
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD100505PGB060N	6	100	0.10	300
GBD100505PGB100N	10	100	0.20	200
GBD100505PGB400N	40	100	0.40	150
GBD100505PGB800N	80	100	0.60	100
GBD100505PGB121N	120	100	0.80	50

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD160808PGB-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
160808	1.60+/-0.15	0.80+/-0.15	0.80+/-0.15	0.40+/-0.20	1.80	0.60	1.00

Electrical Characteristics :

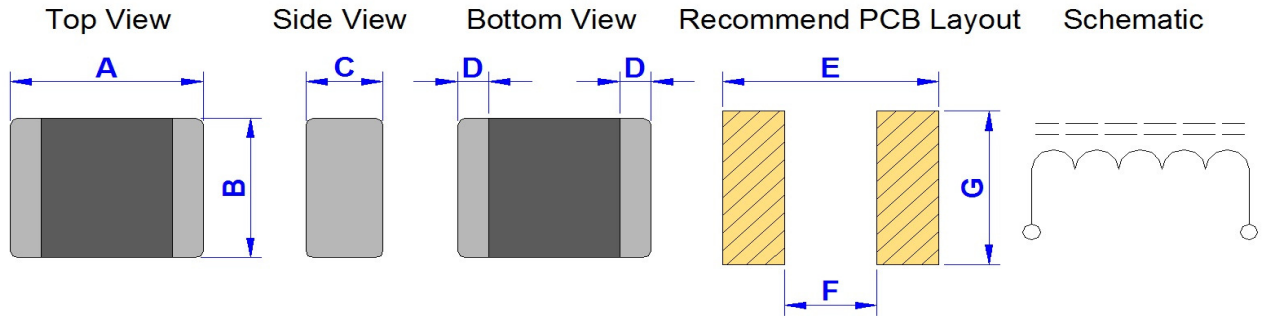
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD160808PGB060N	6	100	0.05	500
GBD160808PGB100N	10	100	0.07	400
GBD160808PGB300N	30	100	0.30	300
GBD160808PGB400N	40	100	0.30	300
GBD160808PGB470N	47	100	0.30	300
GBD160808PGB600N	60	100	0.30	300
GBD160808PGB750N	75	100	0.40	300
GBD160808PGB800N	80	100	0.40	300
GBD160808PGB101N	100	100	0.40	300
GBD160808PGB121N	120	100	0.40	300
GBD160808PGB131N	130	100	0.40	300
GBD160808PGB151N	150	100	0.40	300
GBD160808PGB221N	220	100	0.40	200
GBD160808PGB241N	240	100	0.40	200
GBD160808PGB301N	300	100	0.50	200
GBD160808PGB481N	480	100	0.60	150
GBD160808PGB601N	600	100	0.60	100
GBD160808PGB102N	1000	100	0.70	100
GBD160808PGB152N	1500	100	0.80	100
GBD160808PGB182N	1800	100	0.95	100
GBD160808PGB222N	2200	100	1.50	50

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD201209PGB-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
201209	2.00+/-0.20	1.25+/-0.20	0.90+/-0.20	0.50+/-0.30	2.30	1.30	1.30

Electrical Characteristics :

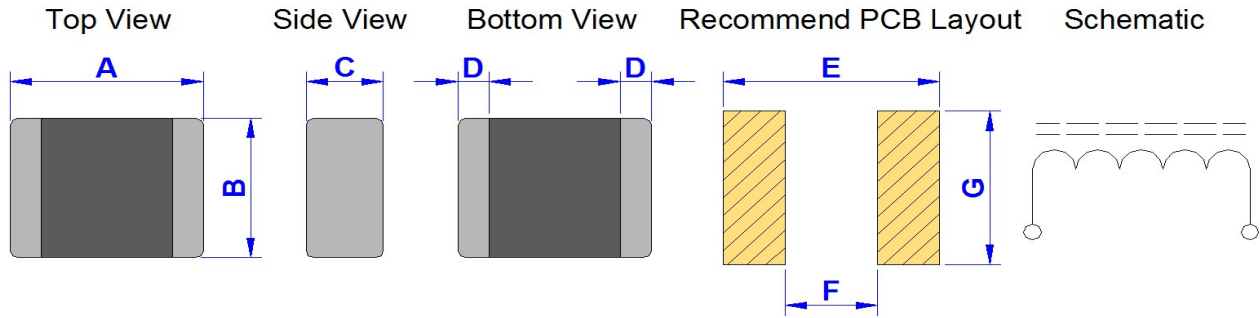
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD201209PGB060N	6	100	0.07	800
GBD201209PGB110N	11	100	0.10	700
GBD201209PGB260N	26	100	0.20	600
GBD201209PGB300N	30	100	0.20	600
GBD201209PGB320N	32	100	0.20	600
GBD201209PGB400N	40	100	0.30	500
GBD201209PGB600N	60	100	0.30	500
GBD201209PGB750N	75	100	0.30	500
GBD201209PGB900N	90	100	0.30	500
GBD201209PGB101N	100	100	0.40	400
GBD201209PGB121N	120	100	0.40	400
GBD201209PGB151N	150	100	0.40	400
GBD201209PGB171N	170	100	0.50	400
GBD201209PGB201N	200	100	0.50	300
GBD201209PGB221N	220	100	0.50	300
GBD201209PGB301N	300	100	0.50	300
GBD201209PGB401N	400	100	0.50	300
GBD201209PGB501N	500	100	0.50	200
GBD201209PGB601N	600	100	0.50	200
GBD201209PGB751N	750	100	0.60	100
GBD201209PGB102N	1000	100	0.60	100
GBD201209PGB122N	1200	100	0.70	100
GBD201209PGB152N	1500	100	0.70	100
GBD201209PGB222N	2200	100	0.75	100
GBD201209PGB272N	2700	100	0.85	100

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD321611PGB-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
321611	3.20+/-0.20	1.60+/-0.20	1.10+/-0.20	0.70+/-0.30	4.40	2.20	2.06

Electrical Characteristics :

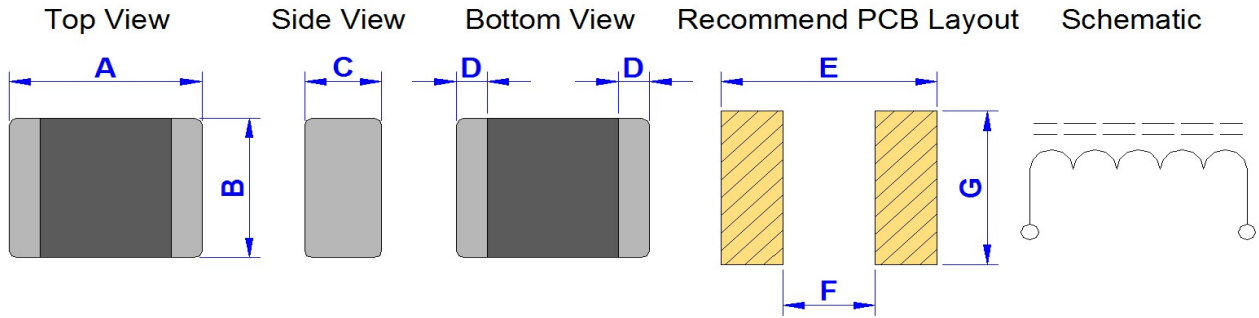
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD321611PGB190N	19	100	0.20	600
GBD321611PGB320N	32	100	0.20	600
GBD321611PGB600N	60	100	0.30	500
GBD321611PGB800N	80	100	0.30	500
GBD321611PGB900N	90	100	0.30	500
GBD321611PGB121N	120	100	0.40	400
GBD321611PGB151N	150	100	0.40	400
GBD321611PGB201N	200	100	0.50	300
GBD321611PGB221N	220	100	0.50	300
GBD321611PGB351N	350	100	0.60	300
GBD321611PGB401N	400	100	0.60	300
GBD321611PGB601N	600	100	0.80	300
GBD321611PGB122N	1200	100	1.00	200
GBD321611PGB152N	1500	100	1.20	150

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD100505PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
100505	1.00+/-0.15	0.50+/-0.15	0.50+/-0.15	0.25+/-0.15	1.10	0.40	0.60

Electrical Characteristics :

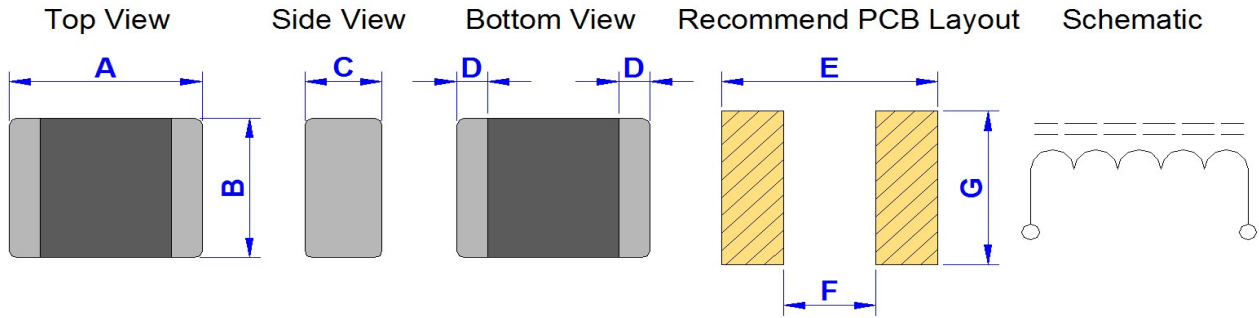
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD100505PGH100N	10	100	0.030	2000
GBD100505PGH300N	30	100	0.050	1700
GBD100505PGH600N	60	100	0.080	1500
GBD100505PGH800N	80	100	0.090	1200
GBD100505PGH101N	100	100	0.090	1200
GBD100505PGH121N	120	100	0.090	1200
GBD100505PGH601N	600	100	0.340	420

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD160808PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
160808	1.60+/-0.15	0.80+/-0.15	0.80+/-0.15	0.40+/-0.20	1.80	0.60	1.00

Electrical Characteristics :

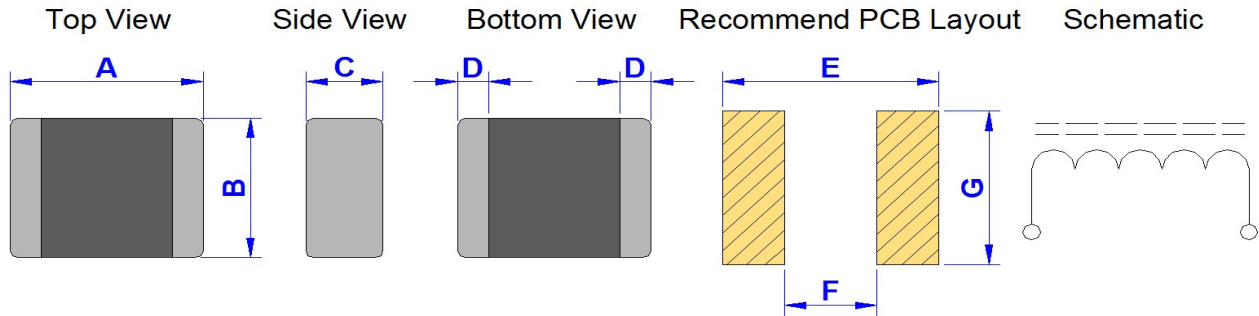
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD160808PGH100N	10	100	0.020	4000
GBD160808PGH110N	11	100	0.020	4000
GBD160808PGH220N	22	100	0.040	3000
GBD160808PGH250N	25	100	0.030	3000
GBD160808PGH300N	30	100	0.030	3000
GBD160808PGH400N	40	100	0.035	3000
GBD160808PGH600N	60	100	0.040	3000
GBD160808PGH700N	70	100	0.050	2500
GBD160808PGH750N	75	100	0.050	2500
GBD160808PGH800N	80	100	0.050	2500
GBD160808PGH900N	90	100	0.050	2500
GBD160808PGH101N	100	100	0.050	2500
GBD160808PGH121N	120	100	0.050	2500
GBD160808PGH151N	150	100	0.080	2000
GBD160808PGH181N	180	100	0.080	2000
GBD160808PGH201N	200	100	0.100	2000
GBD160808PGH221N	220	100	0.100	2000
GBD160808PGH301N	300	100	0.100	2000
GBD160808PGH331N	330	100	0.150	1500
GBD160808PGH391N	390	100	0.140	1000
GBD160808PGH471N	470	100	0.150	1500
GBD160808PGH501N	500	100	0.150	1500
GBD160808PGH601N	600	100	0.200	1000
GBD160808PGH102N	1000	100	0.250	800
GBD160808PGH152N	1500	100	0.400	500
GBD160808PGH202N	2000	100	0.500	500
GBD160808PGH252N	2500	100	0.800	200

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD201209PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
201209	2.00+/-0.20	1.25+/-0.20	0.90+/-0.20	0.50+/-0.30	2.30	1.30	1.30

Electrical Characteristics :

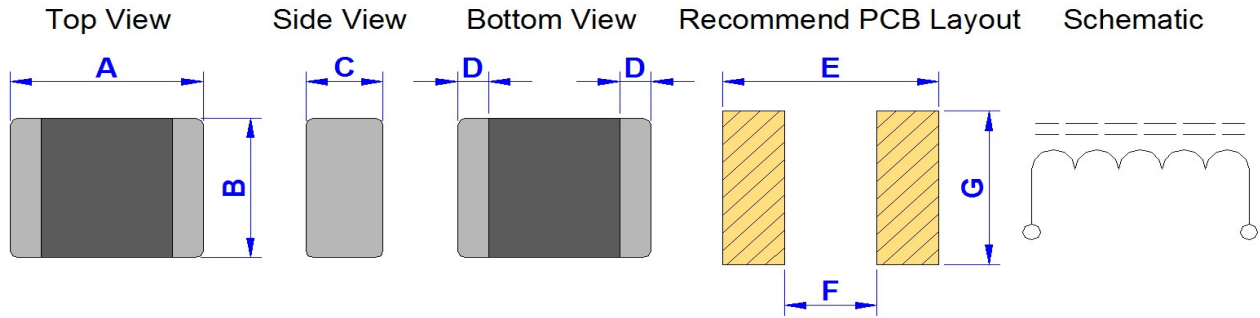
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD201209PGH070N	7	100	0.01	6000
GBD201209PGH110N	11	100	0.01	6000
GBD201209PGH170N	17	100	0.02	5000
GBD201209PGH220N	22	100	0.02	4000
GBD201209PGH270N	27	100	0.02	4000
GBD201209PGH300N	30	100	0.02	4000
GBD201209PGH310N	31	100	0.02	4000
GBD201209PGH400N	40	100	0.02	3000
GBD201209PGH500N	50	100	0.02	3000
GBD201209PGH600N	60	100	0.03	3000
GBD201209PGH700N	70	100	0.04	3000
GBD201209PGH750N	75	100	0.04	3000
GBD201209PGH800N	80	100	0.04	3000
GBD201209PGH900N	90	100	0.04	3000
GBD201209PGH101N	100	100	0.04	3000
GBD201209PGH121N	120	100	0.04	3000
GBD201209PGH151N	150	100	0.05	2500
GBD201209PGH181N	180	100	0.05	2500
GBD201209PGH201N	200	100	0.05	2500
GBD201209PGH221N	220	100	0.08	2000
GBD201209PGH301N	300	100	0.08	2000
GBD201209PGH331N	330	100	0.08	2000
GBD201209PGH401N	400	100	0.10	2000
GBD201209PGH501N	500	100	0.10	2000
GBD201209PGH601N	600	100	0.10	2000
GBD201209PGH102N	1000	100	0.12	1500
GBD201209PGH152N	1500	100	0.30	1000

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD321611PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
321611	3.20+/-0.20	1.60+/-0.20	1.10+/-0.20	0.70+/-0.30	4.40	2.20	2.06

Electrical Characteristics :

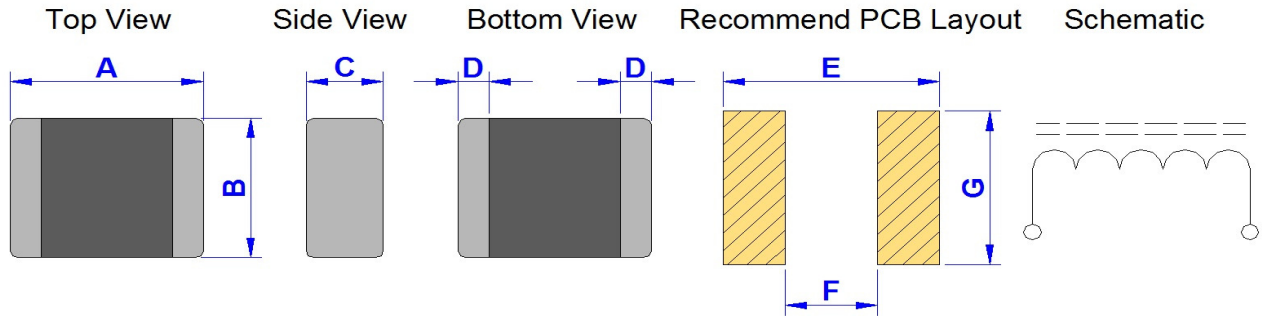
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD321611PGH110N	11 ± 25%	100	0.015	6000
GBD321611PGH190N	19 ± 25%	100	0.015	6000
GBD321611PGH260N	26 ± 25%	100	0.015	6000
GBD321611PGH300N	30 ± 25%	100	0.015	4000
GBD321611PGH310N	31 ± 25%	100	0.015	4000
GBD321611PGH320N	32 ± 25%	100	0.015	4000
GBD321611PGH500N	50 ± 25%	100	0.020	4000
GBD321611PGH600N	60 ± 25%	100	0.020	4000
GBD321611PGH800N	80 ± 25%	100	0.025	3000
GBD321611PGH900N	90 ± 25%	100	0.030	3000
GBD321611PGH101N	100 ± 25%	100	0.030	3000
GBD321611PGH121N	120 ± 25%	100	0.030	3000
GBD321611PGH151N	150 ± 25%	100	0.040	2000
GBD321611PGH221N	220 ± 25%	100	0.050	2000
GBD321611PGH301N	300 ± 25%	100	0.060	2000
GBD321611PGH401N	400 ± 25%	100	0.065	2500
GBD321611PGH501N	500 ± 25%	100	0.070	2500
GBD321611PGH601N	600 ± 25%	100	0.100	2000
GBD321611PGH102N	1000 ± 25%	50	0.300	1000
GBD321611PGH122N	1200 ± 25%	50	0.180	1000
GBD321611PGH152N	1500 ± 25%	50	0.200	800

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD322513PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
322513	3.20+/-0.20	2.50+/-0.20	1.30+/-0.20	0.80+/-0.20	4.06	2.13	2.74

Electrical Characteristics :

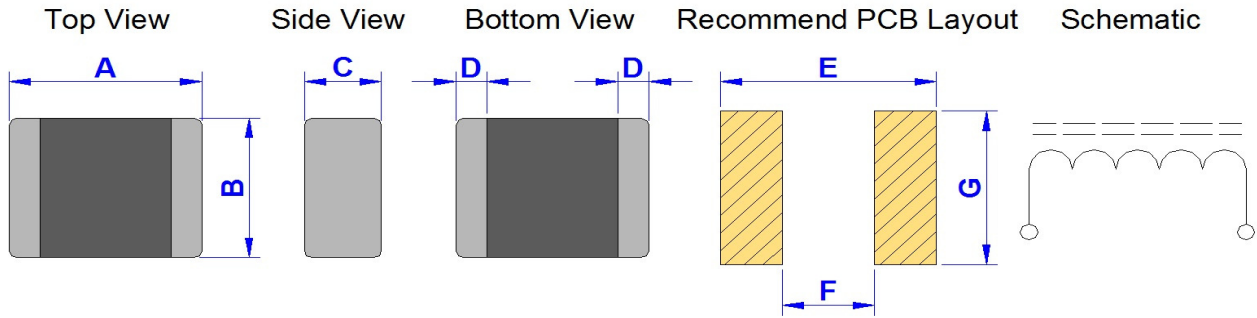
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD322513PGH600N	60 ± 25%	100	0.025	4000
GBD322513PGH900N	90 ± 25%	100	0.025	3000

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD451616PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
451616	4.50+/-0.20	1.60+/-0.20	1.60+/-0.20	0.80+/-0.20	5.70	2.70	2.24

Electrical Characteristics :

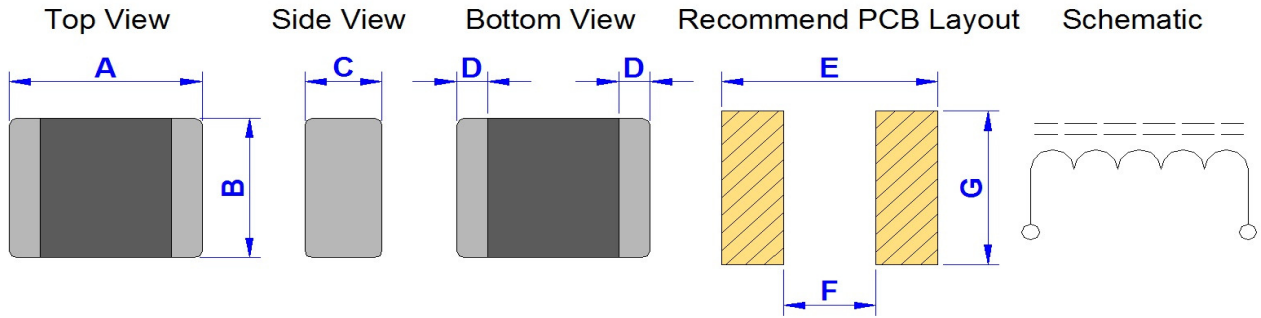
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD451616PGH500N	50 ± 25%	100	0.020	6000
GBD451616PGH600N	60 ± 25%	100	0.020	5000
GBD451616PGH800N	80 ± 25%	100	0.025	4000
GBD451616PGH151N	150 ± 25%	100	0.100	2000

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD453215PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
453215	4.50+/-0.20	3.20+/-0.20	1.50+/-0.20	0.80+/-0.20	5.90	2.57	4.22

Electrical Characteristics :

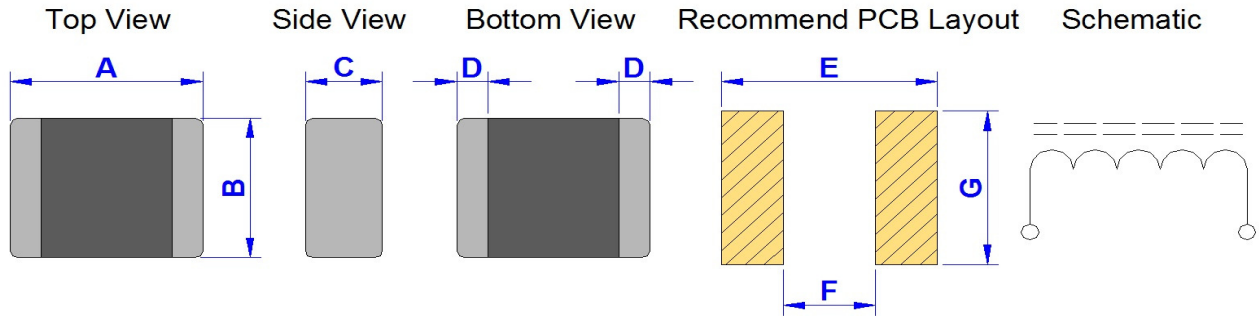
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD453215PGH700N	70 ± 25%	100	0.030	6000
GBD453215PGH121N	120 ± 25%	100	0.030	4000

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD565015PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
565015	5.59+/-0.51	5.08+/-0.25	1.50+/-0.20	0.51 ~ 1.01	9.19	3.05	6.10

Electrical Characteristics :

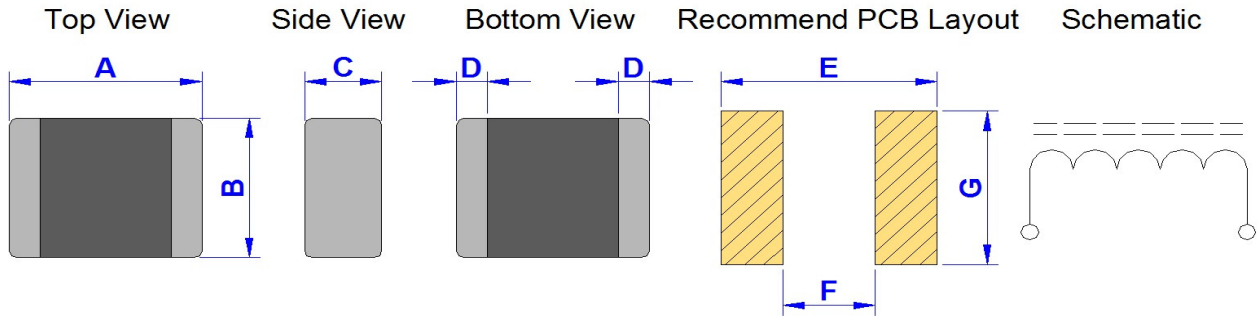
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD565015PGH171N	170 ± 25%	100	0.030	4000

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

Product Series : GBD	Brand : GOTREND
File Version : GBD-SERIES-V5R8	Editor : Qiuyi Wu
Established Date : 2009.07.24	Description : Multilayer Ferrite Chip Bead
Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD565018PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
565018	5.59+/-0.51	5.08+/-0.25	1.80+/-0.25	0.51 ~ 1.01	9.19	3.05	6.10

Electrical Characteristics :

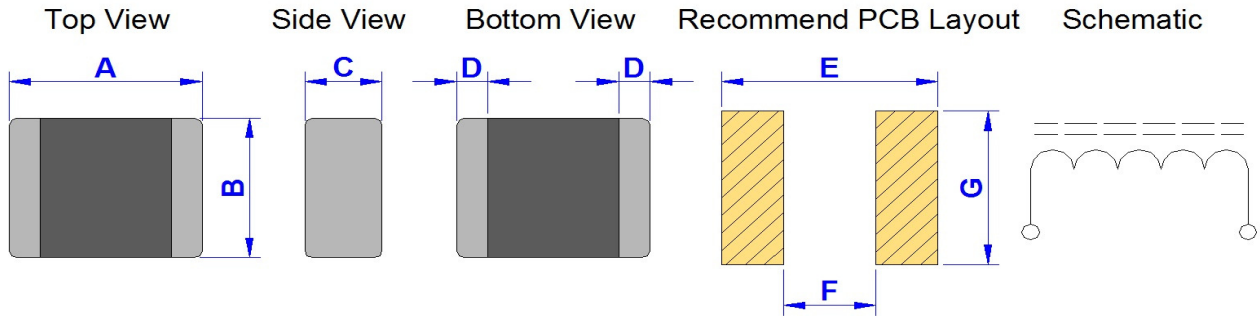
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD565018PGH101N	100 ± 25%	100	0.006	6000
GBD565018PGH151N	150 ± 25%	100	0.015	5000
GBD565018PGH181N	180 ± 25%	100	0.020	5000
GBD565018PGH251N	250 ± 25%	100	0.015	4000

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

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GBD565032PGH-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
565032	5.59+/-0.51	5.08+/-0.25	3.20+/-0.25	0.51 ~ 1.01	9.19	3.05	6.10

Electrical Characteristics :

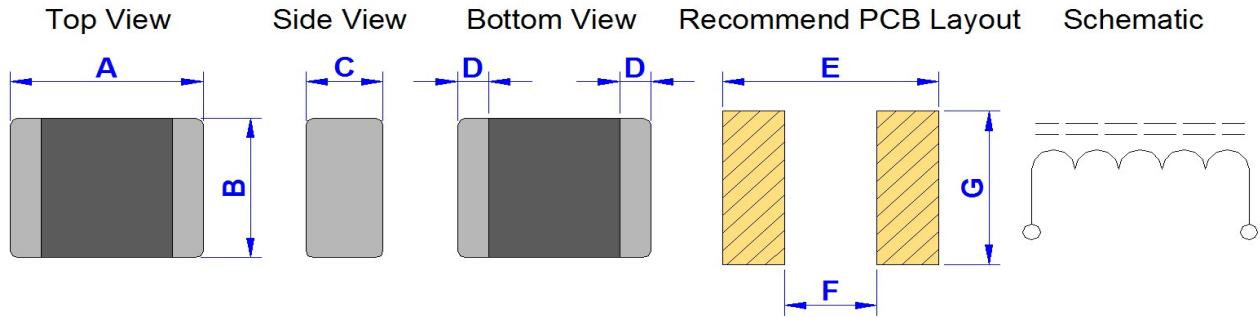
Part No.	Z - Value (Ohm) (+/- 25%)	Test Freq. (MHz) / 0.5V	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD565032PGH271N	270 ± 25%	100	0.035	4000
GBD565032PGH401N	400 ± 25%	100	0.030	4500

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

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GBD100505PGF-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
100505	1.00+/-0.15	0.50+/-0.15	0.50+/-0.15	0.25+/-0.15	1.10	0.40	0.60

Electrical Characteristics :

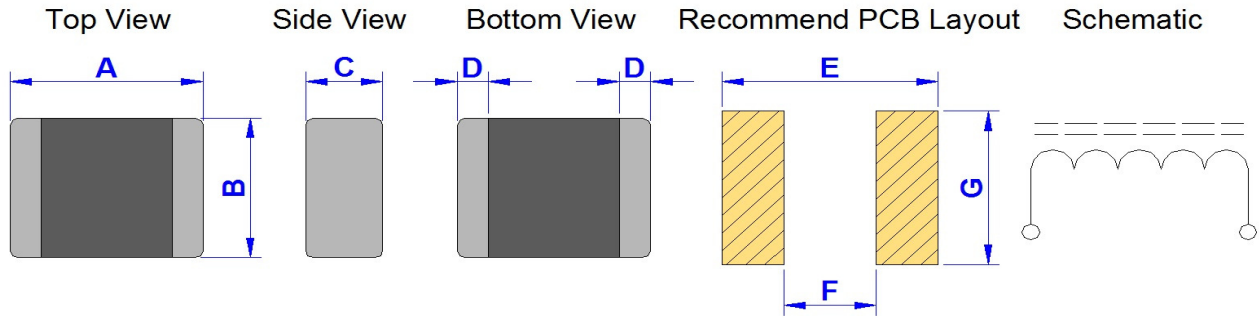
Part No.	Impedance (Ohm +/- 25%) @100MHz	Impedance (Ohm +/- 40%) @1GHz	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD100505PGF201N	200	420	0.70	200
GBD100505PGF221N	220	420	0.70	500
GBD100505PGF301N	300	560	0.80	200
GBD100505PGF331N	330	560	0.80	200
GBD100505PGF470N	470	1000	1.00	100
GBD100505PGF601N	600	1100	1.20	100
GBD100505PGF102N	1000	1700	1.60	100

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

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Latest Edit Date : 2021.09.01	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GBD160808PGF-SERIES

Dimension [mm] :



Size	A	B	C	D	E(Ref.)	F(Ref.)	G(Ref.)
160808	1.60+/-0.15	0.80+/-0.15	0.80+/-0.15	0.40+/-0.20	1.80	0.60	1.00

Electrical Characteristics :

Part No.	Impedance (Ohm +/- 25%) @100MHz	Impedance (Ohm +/- 40%) @1GHz	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)
GBD160808PGF121N	120	140	0.25	300
GBD160808PGF221N	220	300	0.50	200
GBD160808PGF301N	300	400	0.50	200
GBD160808PGF331N	330	400	0.50	200
GBD160808PGF471N	470	500	0.70	200
GBD160808PGF601N	600	600	0.90	100
GBD160808PGF801N	800	1000	1.50	50
GBD160808PGF102N	1000	1200	1.50	50
GBD160808PGF122N	1200	1000	1.50	50

* Rated Current based on increasing product temperature : Current when temperature of the product reaches +40 deg.C .

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Care note :

Care note for Use :

(1) Storage Condition :

Temperature 25 to 35 deg.C , Humidity 45 to 60% RH

(2) Use Temperature :

- a. Minimum Temperature : -40 deg.C Ambient temperature of this product.
- b. Maximum Temperature : +125 deg.C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 ~ +125 deg.C
- d. However, this is not meant as temperature grade guarantee for UL.

(3) Model :

When this product was used in a similar or as new product to the original one, sometimes it might be unable to satisfy the specifications due to difference in condition of usage.

(4) Drop :

If this product suffered mechanical stress such as drop, characteristics may become poor (due to damage on coil / bobbin / ferrite ... etc.)

Never use such stressed product.

Care note for Safety :

(1) Provision to Abnormal Condition :

This product itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.

Therefore, it shall be confirmed from the end product that there is no risk of smoking, fire, dielectric withstand voltage insulation resistance,etc. in abnormal conditions to provide protective devices and /or protection circuit in the end product.

(2) Temperature Rise :

Temperature rise on this product depends on the installation condition on end products.

It shall be confirmed on the actual end product that temperature rise of this product is within the specified temperature class limit.

(3) Dielectric Strength :

Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.

(4) Water :

This product must not be used in wet condition resulted from water, coffee or any liquid contact because insulation strength becomes very low under such condition.

(5) Potting :

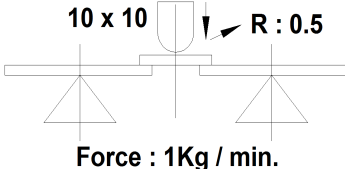
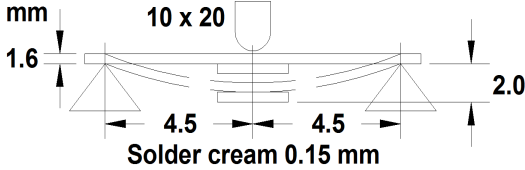
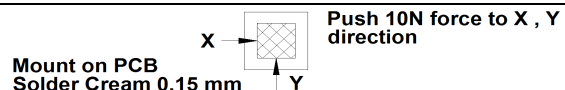
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(6) Detergent :

Please consult our company immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.

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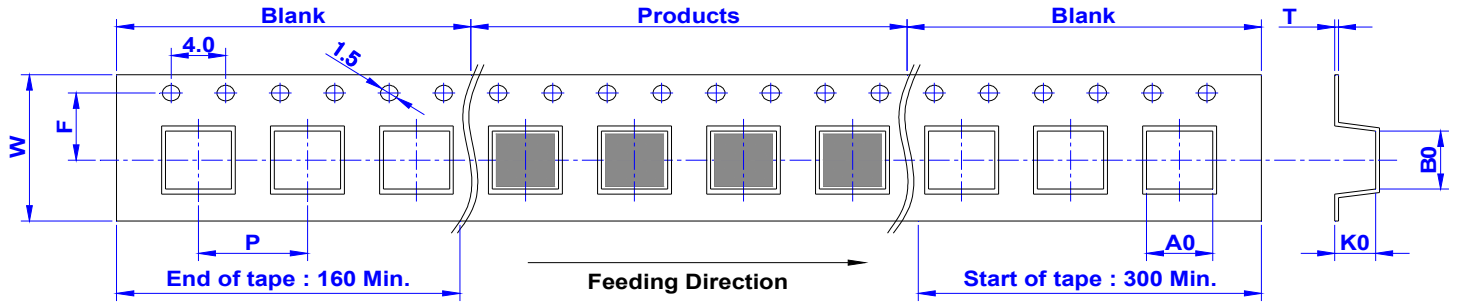
Reliability :

SN	Test Item	Test Condition	Specification												
1	Dimension	Actual Size ...	Meet Spec												
2	Thermal Shock (Temperature Cycle)	Temperature : -40 ~ +125 deg.C kept stabilized for 30 min. each Cycle : 100 Cycles (power off)	Elec. no variation Appearance no deformation												
3	Humidity Resistance	Humidity : 90% ~ 95% RH Temperature : 60 ± 2 deg.C , Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation												
4	High Temperature	Temperature : 125 ± 2 deg.C Testing Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation												
5	Low Temperature	Temperature : -40 ± 2 deg.C Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation												
6	Temperature and Humidity Cycle	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Humidity</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>25 deg.C</td> <td>90% ~ 95% RH</td> <td>3.0 Hr</td> </tr> <tr> <td>55 deg.C</td> <td>95% ~ 96% RH</td> <td>5.0 Hr</td> </tr> <tr> <td>25 deg.C</td> <td>90% ~ 95% RH</td> <td>3.0 Hr</td> </tr> </tbody> </table>	Temperature	Humidity	Time	25 deg.C	90% ~ 95% RH	3.0 Hr	55 deg.C	95% ~ 96% RH	5.0 Hr	25 deg.C	90% ~ 95% RH	3.0 Hr	Elec. no variation Appearance no deformation
		Temperature	Humidity	Time											
		25 deg.C	90% ~ 95% RH	3.0 Hr											
		55 deg.C	95% ~ 96% RH	5.0 Hr											
25 deg.C	90% ~ 95% RH	3.0 Hr													
Cycle : 20 Cycles															
7	Vibration	Frequency : 10Hz ~ 55Hz , Amplitude : 1.5 mm Direction : X , Y , Z , Time : 2 Hours each	Elec. no variation Appearance no deformation												
8	Solderability	Go through real SMT IR-Reflow ... The profile like our suggest profile. Preheat : 160 ± 10 deg.C (90 sec) Peak : 245 ± 5 deg.C Peak Time : 50 Sec. / up 217 deg.C	Elec. no variation Appearance no deformation												
9	Soldering Heat Resistance	Preheat : 160 ± 10 deg.C (90 sec) Solder : Sn / Ag / Cu (Pb Free) Solder Temp. : 260 ± 5 deg.C , Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation												
10	Iron Solder Heat Resistance	Solder Temp. : 350 ± 5 deg.C Flux : Rosin , Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation												
11	Bending Strength	<p>Unit : mm</p>  <p>Force : 1Kg / min.</p>	Elec. no variation Appearance no deformation												
12	Flexure Strength	<p>Unit : mm</p>  <p>Solder cream 0.15 mm</p>	Elec. no variation Appearance no deformation												
13	Terminal Strength	 <p>Mount on PCB Solder Cream 0.15 mm</p> <p>Push 10N force to X , Y direction</p>	Elec. no variation Appearance no deformation												
14	High-Voltage	100 V DC between core & winding	Elec. no variation Appearance no deformation												
15	Load life	Temperature : 25 ± 3 deg.C Load : Allowed DC Current , Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation												

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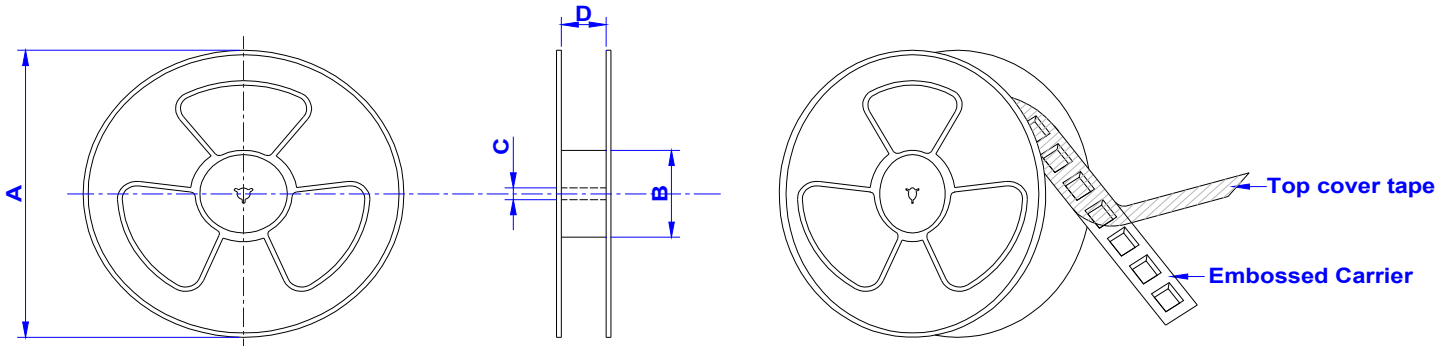
Packaging Information :

Tape Dimension (mm) :



SIZE/mm	A	B	W	D	E	P	G	H	K0	T
060303	0.38+/-0.04	0.68 +/-0.04	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	4.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	N/A	1.1 max.
100505	0.65+/-0.10	1.15 +/-0.10	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	2.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	0.80 +/-0.05	0.20 +/-0.05
160808	1.10 +/-0.10	1.90 +/-0.10	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	4.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	1.10 +/-0.05	0.20 +/-0.05
201209	1.55 +/-0.10	2.30 +/-0.10	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	4.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	1.20 +/-0.05	0.20 +/-0.05
321611	1.90 +/-0.10	3.50 +/-0.10	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	4.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	1.40 +/-0.05	0.20 +/-0.05
321616	1.90 +/-0.10	3.50 +/-0.10	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	4.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	2.05 +/-0.05	0.20 +/-0.05
322513	2.90 +/-0.10	3.60 +/-0.10	8.00+/-0.20	3.50 +/-0.05	1.75 +/-0.10	4.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	1.70 +/-0.05	0.25 +/-0.05
451616	2.90 +/-0.10	4.90 +/-0.10	12.0 +0.20	3.50 +/-0.05	1.75 +/-0.10	8.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	2.05 +/-0.05	0.30 +/-0.05
453215	3.60 +/-0.10	4.90 +/-0.10	12.0 +0.20	3.50 +/-0.05	1.75 +/-0.10	8.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	2.05 +/-0.05	0.30 +/-0.05
565015	5.40 +/-0.10	5.95 +/-0.10	12.0 +0.20	3.50 +/-0.05	1.75 +/-0.10	8.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	2.28 +/-0.05	0.30 +/-0.05
565018	5.40 +/-0.10	5.95 +/-0.10	12.0 +0.20	3.50 +/-0.05	1.75 +/-0.10	8.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	2.28 +/-0.05	0.30 +/-0.05
565032	5.40 +/-0.10	5.95 +/-0.10	12.0 +0.20	3.50 +/-0.05	1.75 +/-0.10	8.00 +/-0.10	2.00 +/-0.05	4.00 +/-0.10	3.42 +/-0.05	0.30 +/-0.05

Reel Dimension (mm) :



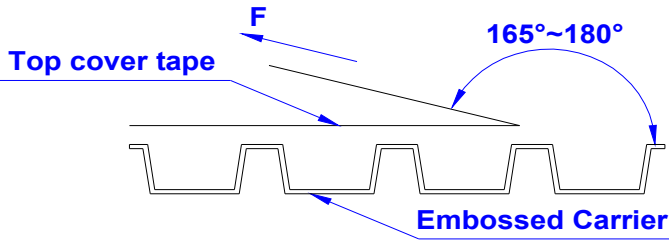
SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
060303	7" x 8 mm	178	60	13	8.5	15000 PCS
100505	7" x 8 mm	178	60	13	8.5	10000 PCS
160808	7" x 8 mm	178	60	13	8.5	4000 PCS
201209	7" x 8 mm	178	60	13	8.5	4000 PCS
321611	7" x 8 mm	178	60	13	8.5	3000 PCS
321616	7" x 8 mm	178	60	13	8.5	2000 PCS
322513	7" x 8 mm	178	60	13	8.5	2000 PCS
451616	7" x 12 mm	178	60	13	12.5	2000 PCS
453215	7" x 12 mm	178	60	13	12.5	1000 PCS
565015	13" x 12 mm	330	100	13	12.5	2000 PCS
565018	13" x 12 mm	330	100	13	12.5	2000 PCS
565032	13" x 12 mm	330	100	13	12.5	2000 PCS

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Packaging Information :

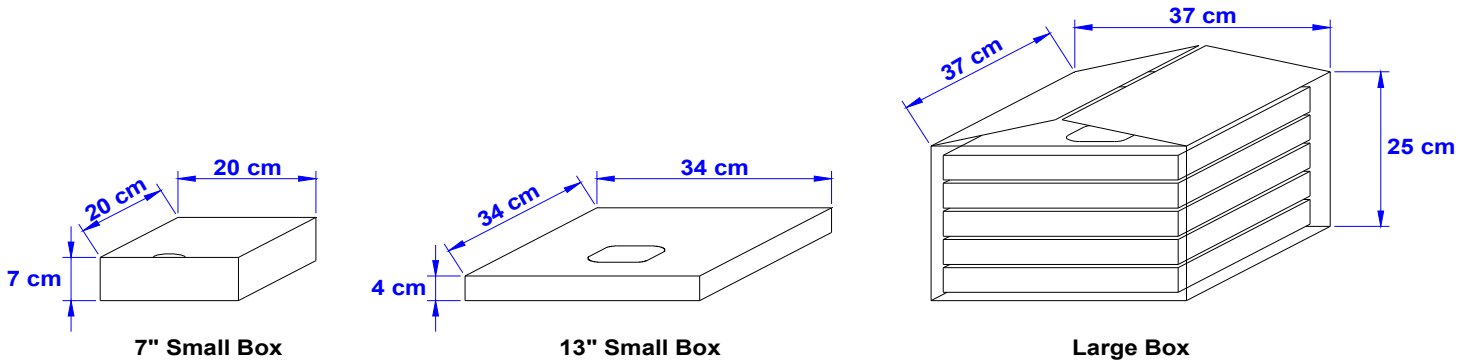
Tearing Off Force :

The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11 standard).



Room Temp. (deg.C)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed (mm / min)
5 ~ 35	45 ~ 85	860 ~ 1060	300

Box Package :



SIZE/mm	Reels in Small Box(QTY)	Small Box in Large Box(QTY)
060303	5(75000)	8(600000)
100505	5(50000)	8(400000)
160808	5(20000)	8(160000)
201209	5(20000)	8(160000)
321611	5(15000)	8(120000)
321616	5(10000)	8(80000)
322513	5(10000)	8(80000)
451616	4(8000)	8(64000)
453215	4(4000)	8(32000)
565015	2(4000)	5(20000)
565018	2(4000)	5(20000)
565032	2(4000)	5(20000)