

SMD Multilayer Ferrite Chip Beads – GMLB-321611 BK Series

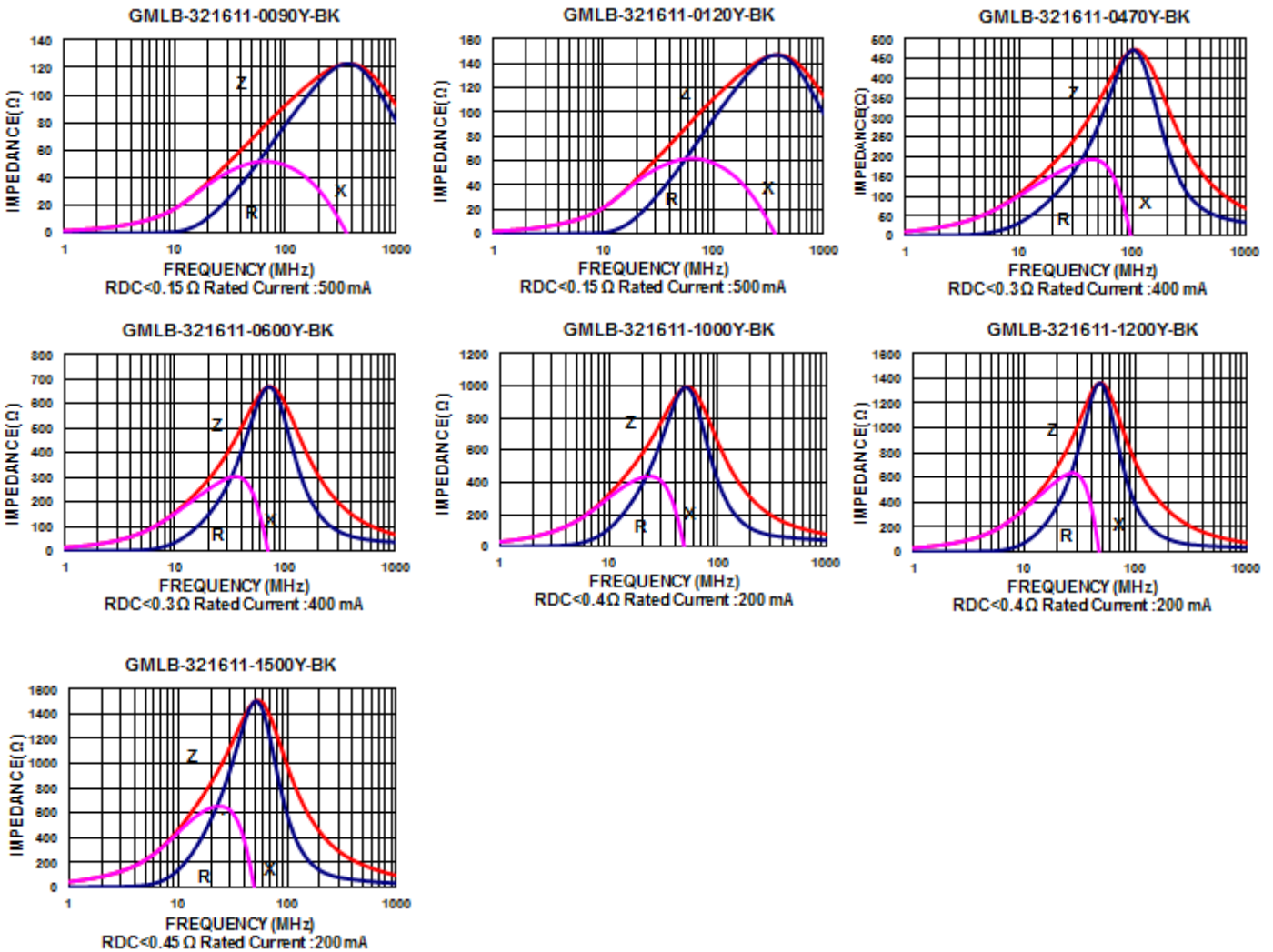
Electrical Characteristics

Part Number	Impedance ($\Omega \pm 25\%$)	Test Frequency (MHz)	RDC (Ω) Max	Rated current (mA) Max
GMLB-321611-0090Y-BK	90	100	0.15	500
GMLB-321611-0120Y-BK	120	100	0.15	500
GMLB-321611-0470Y-BK	470	100	0.20	400
GMLB-321611-0600Y-BK	600	100	0.30	400
GMLB-321611-1000Y-BK	1000	50	0.40	200
GMLB-321611-1200Y-BK	1200	50	0.40	200
GMLB-321611-1500Y-BK	1500	50	0.45	200

Note: When ordering, please specify tolerance code. Tolerance : $Y = \pm 25\%$

- Operating temperature range - 55°C ~ 125°C (Including self - temperature rise)
- Rate Current : Applied the current to coils, the temperature rise shall not be more than 30°C
- Measure Equipment :
Z : HP4291A
RDC : HP4338B or CHEN HWA 502

Test Instruments : Agilent E4991A Impedance / Material Analyzer



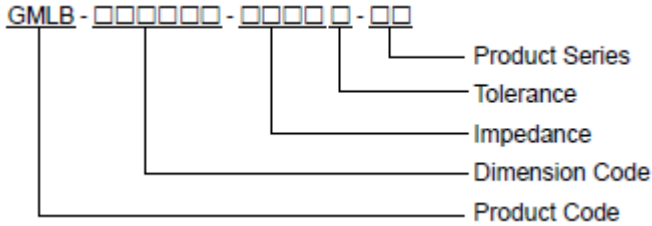
Multilayer Ferrite Chip Beads



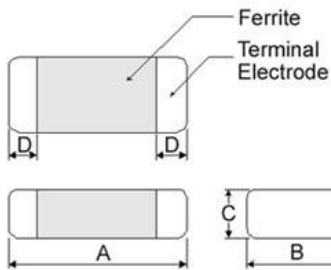
Mag.Layers offers a wide range of multi-layered ferrite chip beads with various sizes, frequency characteristics, and impedance values for EMI solutions.

These ferrite formulas are used to compose seven types of EMI suppression chip beads: SY, BK, SJ, GK, PY, UP, NQ, FY, FJ and HV series.

Product Identification



Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D
①060303	0.6±0.03	0.30±0.03	0.3±0.03	0.15±0.05
②100505	1.0±0.10	0.50±0.10	0.5±0.10	0.25±0.10
③160805	1.6±0.15	0.80±0.15	0.5±0.15	0.3±0.2
④160808	1.6±0.15	0.80±0.15	0.8±0.15	0.3±0.2
⑤201209	2.0±0.20	1.25±0.20	0.9±0.20	0.5±0.3
⑥321611	3.2±0.20	1.60±0.20	1.1±0.20	0.5±0.3

① : SY / SJ / NQ / PY

② : SY / SJ / NQ / PY / UP / FY / FJ

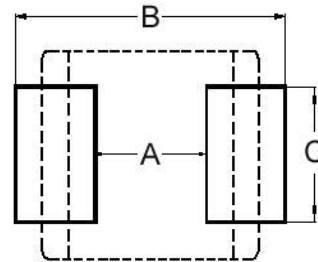
③ : UP ④ : BK / SJ / GK / PY / NQ / UP / HV

⑤ : BK / GK / PY / UP ⑥ : SY / BK / PY / UP

Dimension Conversion

Code	Dimension in mm (AxBxC)	EIA
060303	0.6x0.3x0.3	0201
100505	1.0x0.5x0.5	0402
160805	1.6x0.8x0.5	0603
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
321611	3.2x1.6x1.1	1206

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
①060303	0.2 ~ 0.3	0.75 ~ 1.05	0.3
②100505	0.4	1.2 ~ 1.4	0.5
③160805	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
④160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
⑤201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2
⑥321611	2.0	4.2 ~ 5.2	1.2

* Don't apply narrower pattern than listed above to PY and UP
Narrow pattern might cause excessive heat or open circuit.

