



INDEX

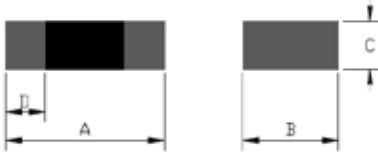
SMB Series.....	2
100505-E1-A(1.0 x 0.5 x 0.5 mm).....	3
160808-E2-A(1.6 x 0.8 x 0.8 mm)	4
201209-E2-A(2.0 x 1.25 x 0.9 mm)	6
160808-E2-P(1.6 x 0.8 x 0.8 mm)	8
160808-E4-P(1.6 x 0.8 x 0.8 mm)	9
201209-E2-P(2.0 x 1.25 x 0.9 mm)	10



SMB SERIES

MULTILAYER FERRITE CHIP BEADS.

Shape and Dimensions(Dimensions are in mm):

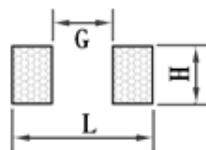


TYPE	A	B	C	D
100505	1.0±0.10	0.50±0.10	0.50±0.10	0.25±0.10
160808	1.6±0.15	0.80±0.15	0.80±0.15	0.30±0.20
201209	2.0±0.20	1.25±0.20	0.90±0.20	0.50±0.30

Dimensions Conversion :

Code	Dimension in mm	EIA
100505	1.0X0.5X0.5	0402
160808	1.6X0.8X0.8	0603
201209	2.0X1.2X0.9	0805

Recommended Pattern :



TYPE	G	L	H
100505	0.4	1.2 ~ 1.4	0.5
160808	0.7 ~ 0.8	1.8 ~ 2.0	0.6 ~ 0.8
201209	1.0 ~ 1.2	2.6 ~ 4.0	1.0 ~ 1.2

Operating Temperature: -55°C ~ 125°C .

Product Identification :

SMB - 160808 - E 2 - 121 A

(1) (2) (3) (4) (5) (6)

- (1) Product Code
- (2) Dimensions (in mm)
- (3) Design Code
- (4) Material
- (5) Impedance
- (6) Identification for Series

Classifications :

- **SMB A-Series Chip Beads**

The A-series is designed for general purpose applications. This series covers a wide range of impedance characteristics.

- **SMB P-Series Chip Beads**

The P-series is designed for high current applications. These chips are suitable for filtering noise near power lines and can match currents to a maximum of 6A DC.

Test equipments :

Z By Agilent E4991A RF Impedance Analyzer with HP16197A Test Fixture.

DCR By milli-ohm meter.

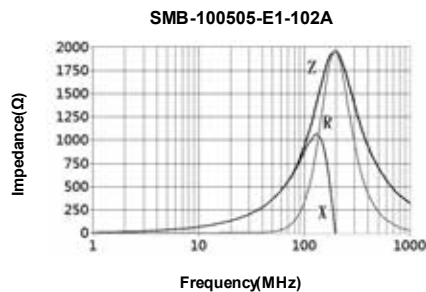
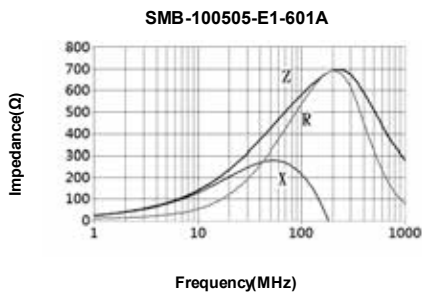
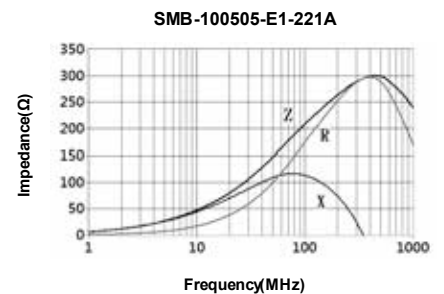
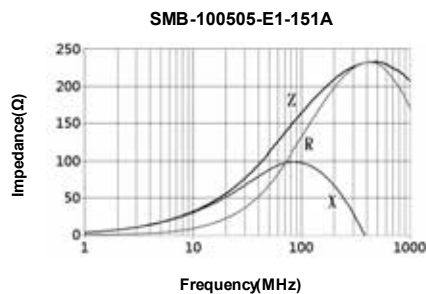
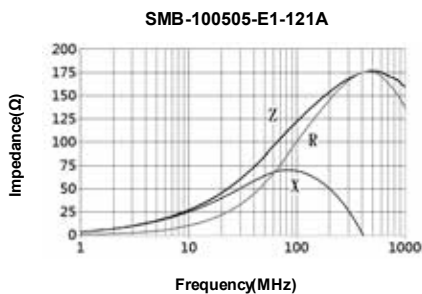
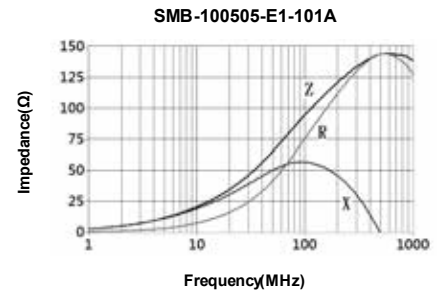
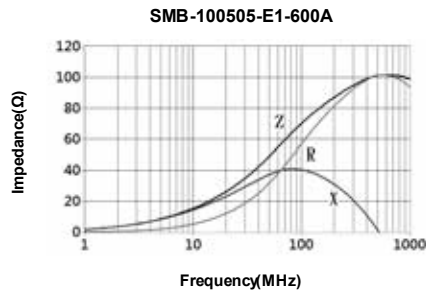
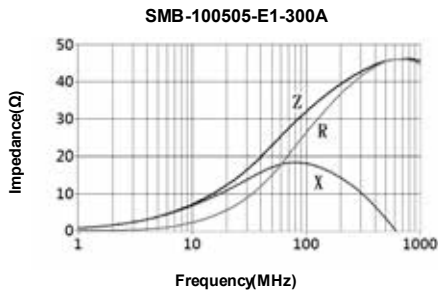


● **SMB- A series (General Circuit Application)**

【SMB-100505 A type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-100505-E1-300A	30 \pm 25%	0.20	500
SMB-100505-E1-600A	60 \pm 25%	0.20	500
SMB-100505-E1-101A	100 \pm 25%	0.25	500
SMB-100505-E1-121A	120 \pm 25%	0.25	500
SMB-100505-E1-151A	150 \pm 25%	0.40	400
SMB-100505-E1-221A	220 \pm 25%	0.40	400
SMB-100505-E1-601A	600 \pm 25%	0.60	300
SMB-100505-E1-102A	1000 \pm 25%	0.95	200

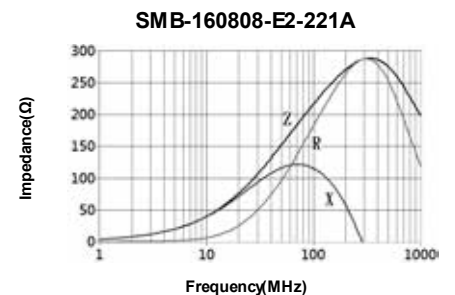
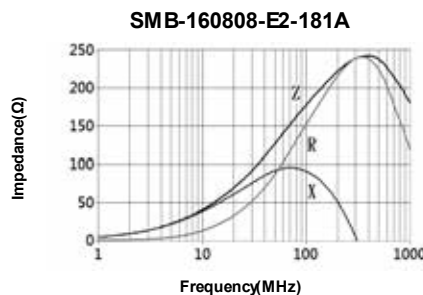
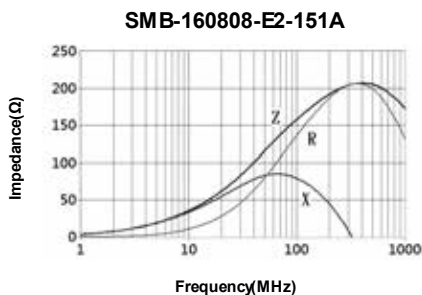
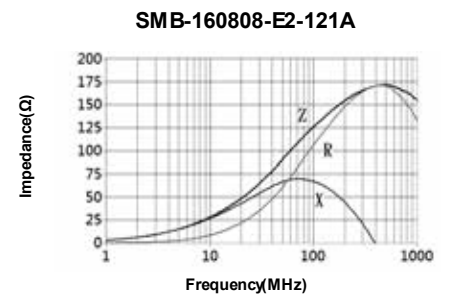
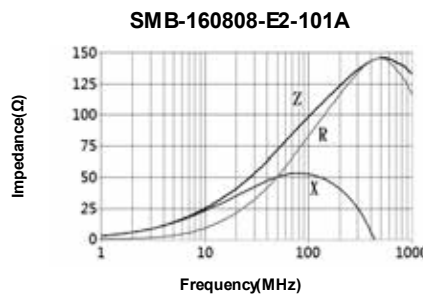
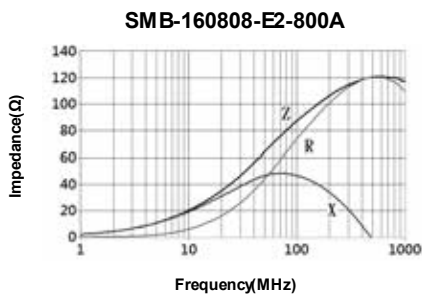
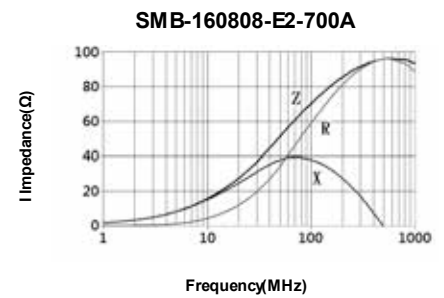
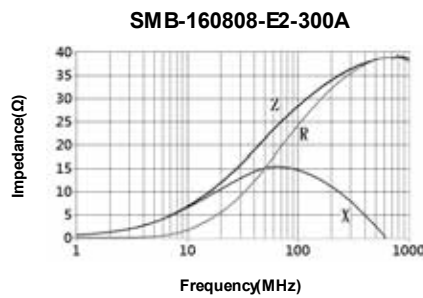
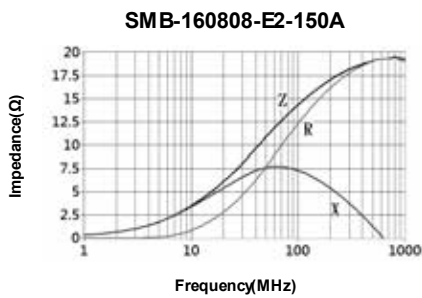
Typical performance curves :



EMI/EMC Type

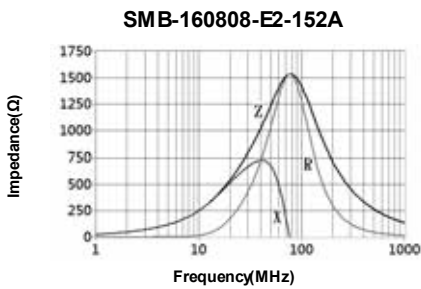
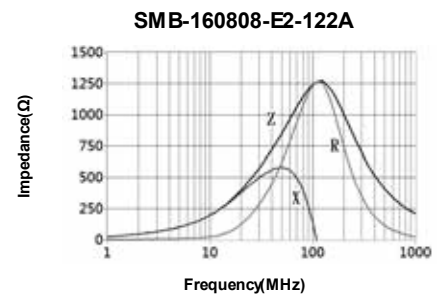
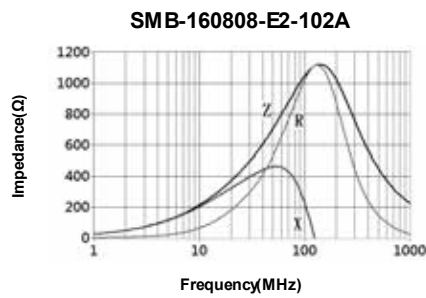
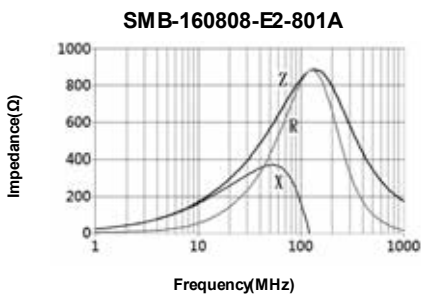
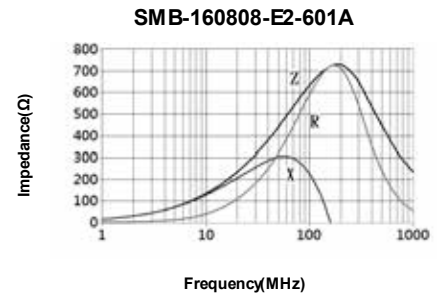
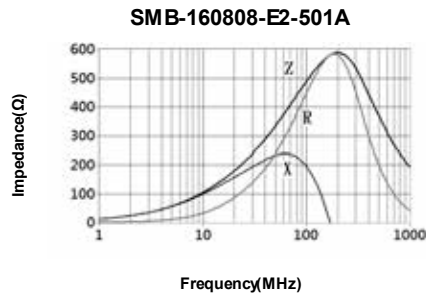
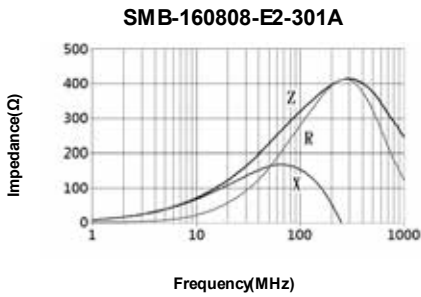

【SMB-160808 A type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-150A	15 \pm 25%	0.08	500
SMB-160808-E2-300A	30 \pm 25%	0.10	400
SMB-160808-E2-700A	70 \pm 25%	0.15	400
SMB-160808-E2-800A	80 \pm 25%	0.15	400
SMB-160808-E2-101A	100 \pm 25%	0.20	400
SMB-160808-E2-121A	120 \pm 25%	0.25	400
SMB-160808-E2-151A	150 \pm 25%	0.25	300
SMB-160808-E2-181A	180 \pm 25%	0.30	300
SMB-160808-E2-221A	220 \pm 25%	0.30	300
SMB-160808-E2-301A	300 \pm 25%	0.40	300
SMB-160808-E2-501A	500 \pm 25%	0.50	300
SMB-160808-E2-601A	600 \pm 25%	0.50	300
SMB-160808-E2-801A	800 \pm 25%	0.60	300
SMB-160808-E2-102A	1000 \pm 25%	0.60	300
SMB-160808-E2-122A	1200 \pm 25%	0.60	300
SMB-160808-E2-152A	1500 \pm 25%	0.60	300

Typical electrical curves :




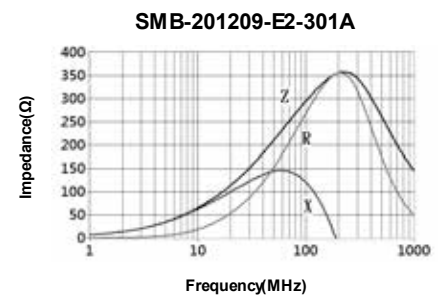
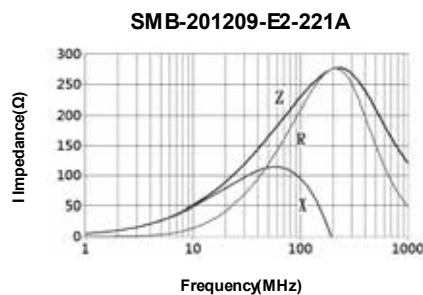
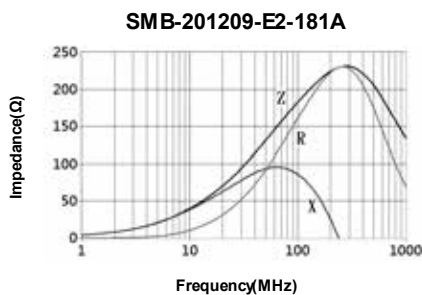
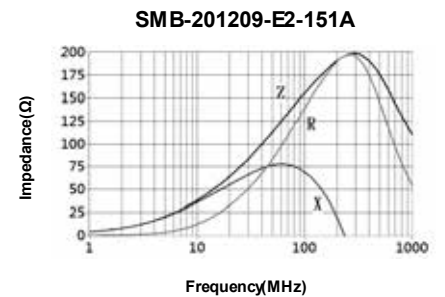
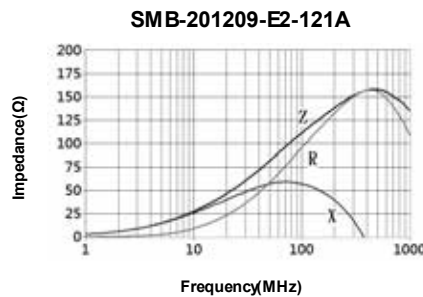
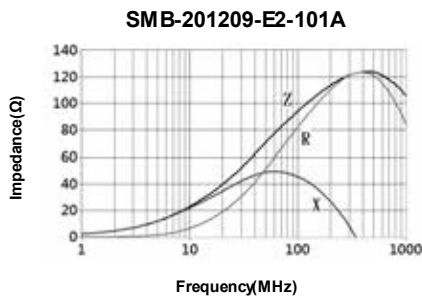
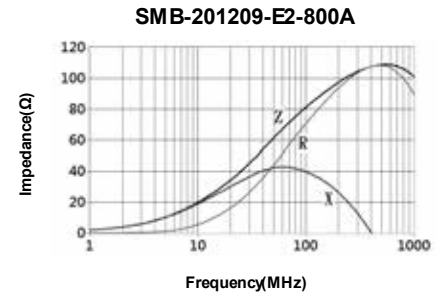
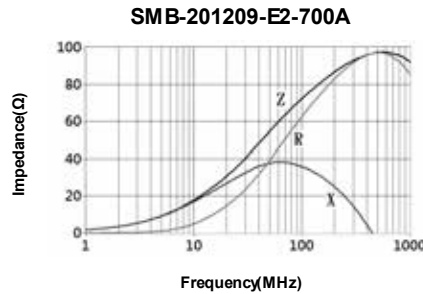
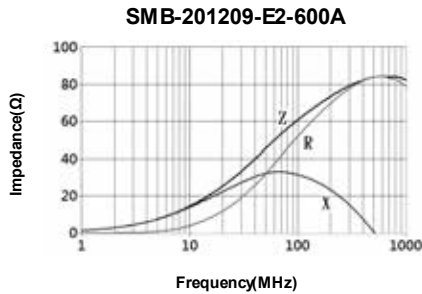
Typical electrical curves :



EMI/EMC Type


【SMB-201209 A type】

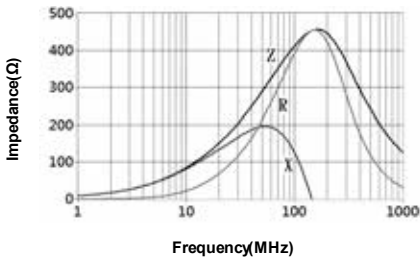
Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-600A	60 \pm 25%	0.15	500
SMB-201209-E2-700A	70 \pm 25%	0.15	500
SMB-201209-E2-800A	80 \pm 25%	0.15	500
SMB-201209-E2-101A	100 \pm 25%	0.25	300
SMB-201209-E2-121A	120 \pm 25%	0.25	300
SMB-201209-E2-151A	150 \pm 25%	0.25	300
SMB-201209-E2-181A	180 \pm 25%	0.30	300
SMB-201209-E2-221A	220 \pm 25%	0.30	300
SMB-201209-E2-301A	300 \pm 25%	0.30	300
SMB-201209-E2-401A	400 \pm 25%	0.30	300
SMB-201209-E2-471A	470 \pm 25%	0.40	300
SMB-201209-E2-501A	500 \pm 25%	0.40	300
SMB-201209-E2-601A	600 \pm 25%	0.40	300
SMB-201209-E2-681A	680 \pm 25%	0.40	300
SMB-201209-E2-102A	1000 \pm 25%	0.50	200
SMB-201209-E2-122A	1200 \pm 25%	0.60	200
SMB-201209-E2-152A	1500 \pm 25%	0.60	200
SMB-201209-E2-202A	2000 \pm 25%	0.80	100

Typical electrical curves :


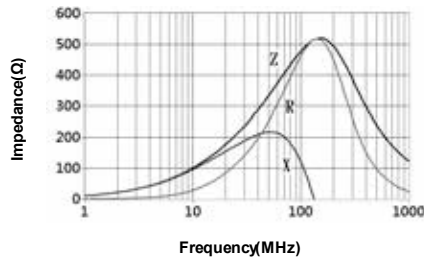


Typical electrical curves :

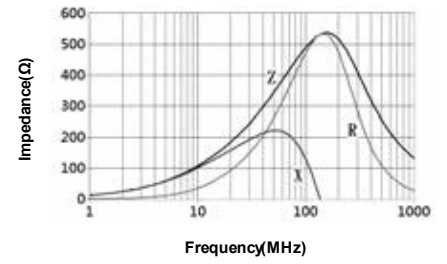
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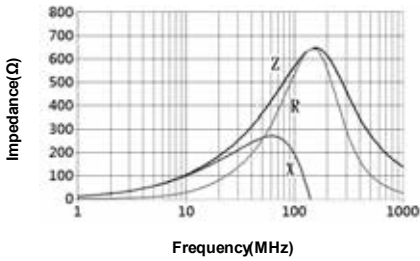
SMB-201209-E2-471A



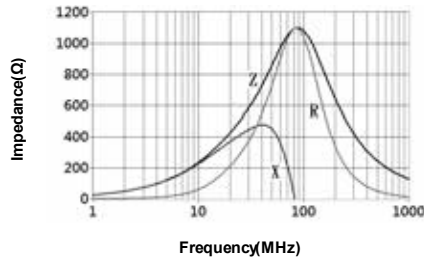
SMB-201209-E2-501A



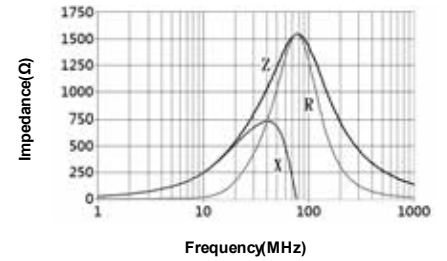
SMB-201209-E2-601A



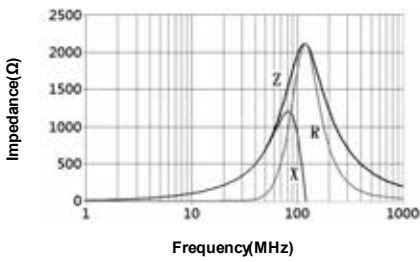
SMB-201209-E2-102A



SMB-201209-E2-152A



SMB-201209-E2-202A



EMI/EMC Type

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better know n.

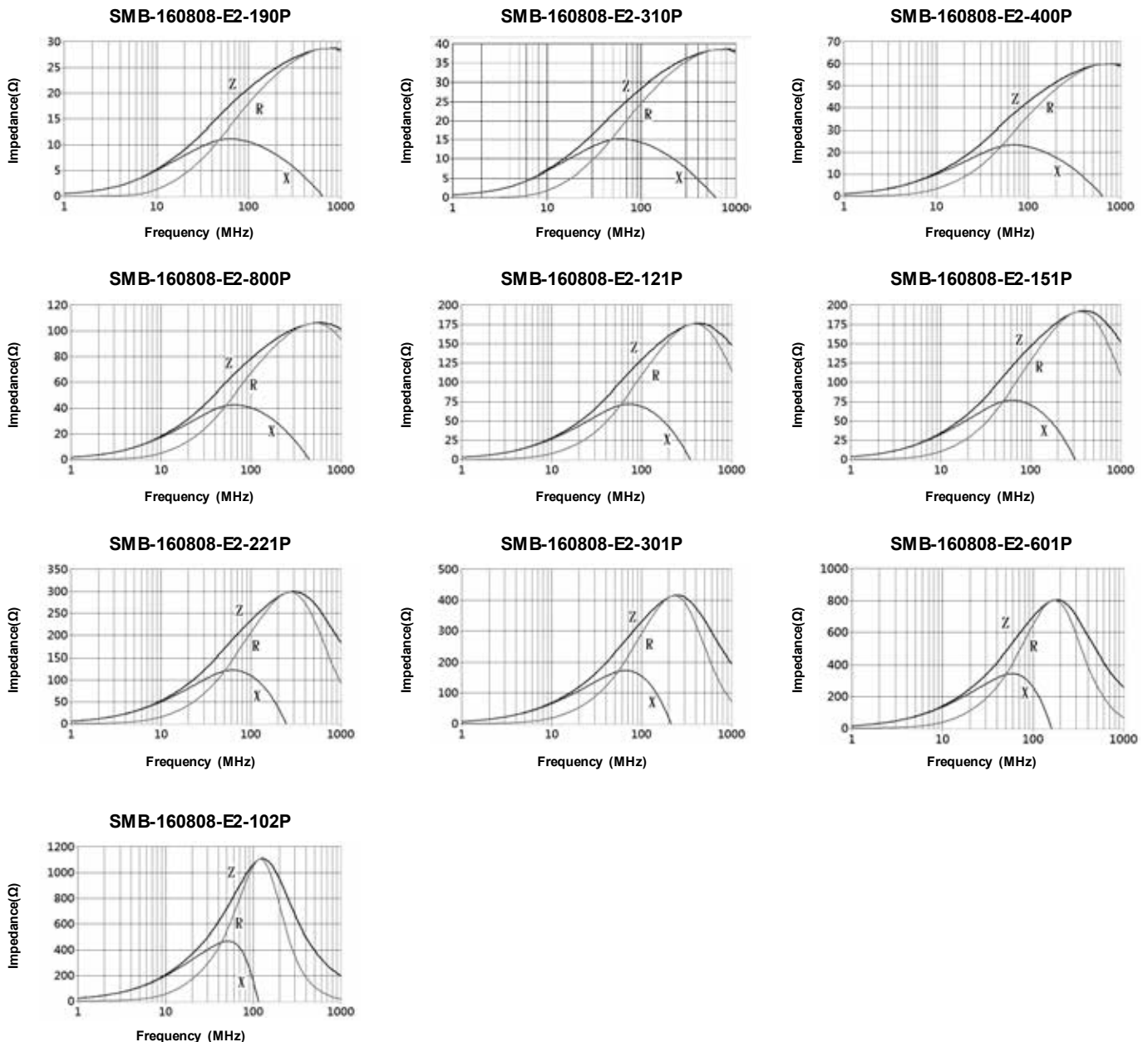


● **SMB- P series (High Current Application)**

【SMB-160808-E2 P type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E2-190P	19 \pm 25%	0.03	3000
SMB-160808-E2-310P	31 \pm 25%	0.03	3000
SMB-160808-E2-400P	40 \pm 25%	0.035	3000
SMB-160808-E2-800P	80 \pm 25%	0.05	2500
SMB-160808-E2-121P	120 \pm 25%	0.08	2500
SMB-160808-E2-151P	150 \pm 25%	0.085	2000
SMB-160808-E2-221P	220 \pm 25%	0.10	2000
SMB-160808-E2-301P	300 \pm 25%	0.12	1500
SMB-160808-E2-601P	600 \pm 25%	0.20	1000
SMB-160808-E2-102P	1000 \pm 25%	0.25	800

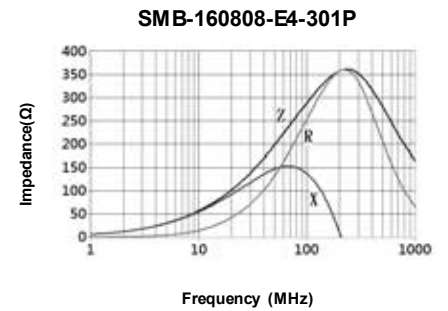
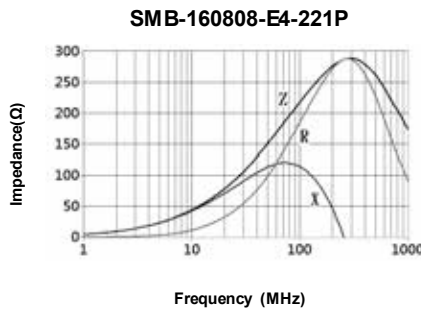
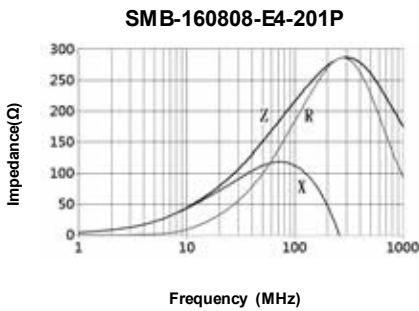
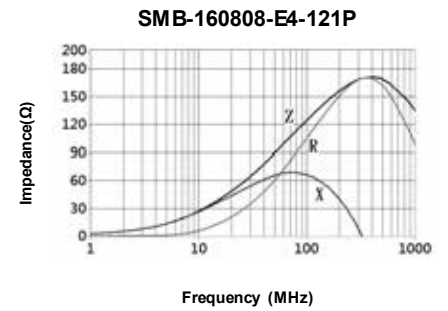
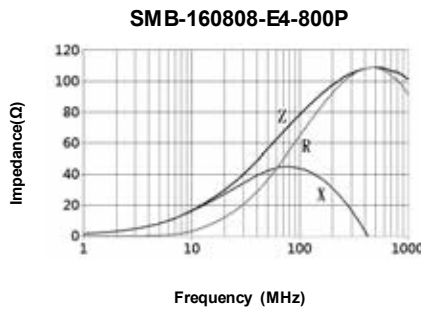
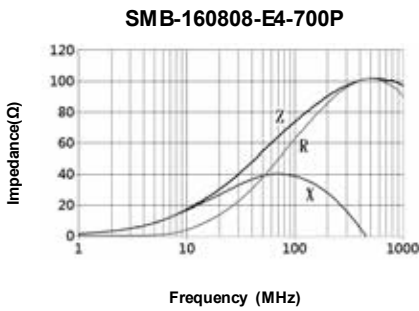
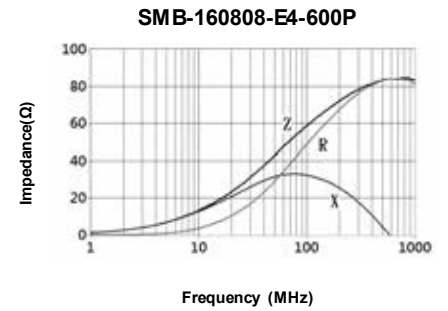
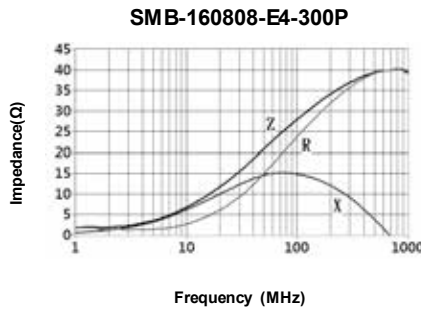
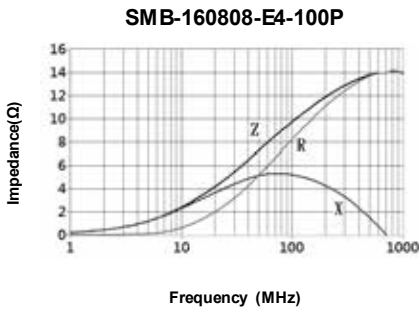
Typical electrical curves :



EMI/EMC Type

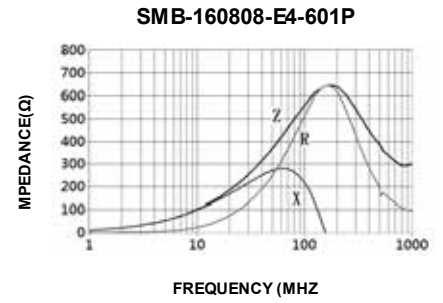
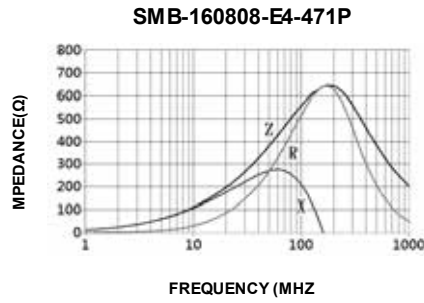
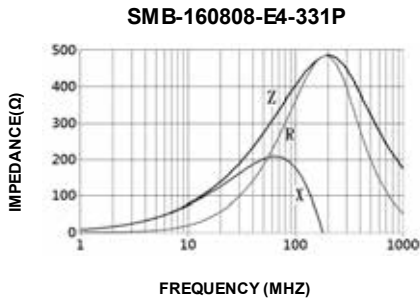

【SMB-160808-E4 P type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-160808-E4-100P	10 \pm 25%	0.01	6000
SMB-160808-E4-300P	30 \pm 25%	0.015	4000
SMB-160808-E4-600P	60 \pm 25%	0.03	3000
SMB-160808-E4-700P	70 \pm 25%	0.04	3000
SMB-160808-E4-800P	80 \pm 25%	0.04	3000
SMB-160808-E4-121P	120 \pm 25%	0.04	3000
SMB-160808-E4-201P	200 \pm 25%	0.05	2500
SMB-160808-E4-221P	220 \pm 25%	0.08	2000
SMB-160808-E4-301P	300 \pm 25%	0.08	2000
SMB-160808-E4-331P	330 \pm 25%	0.08	2000
SMB-160808-E4-471P	470 \pm 25%	0.1	2000
SMB-160808-E4-601P	600 \pm 25%	0.1	2000

Typical electrical curves :
EMI/EMC Type




Typical electrical curves :

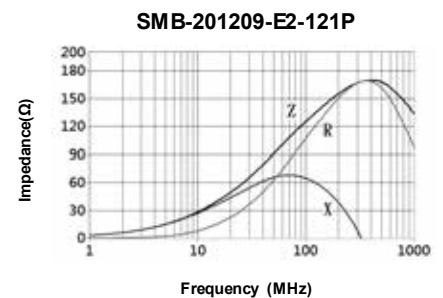
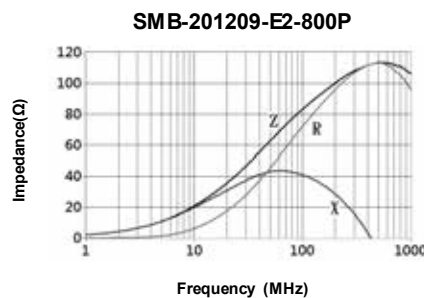
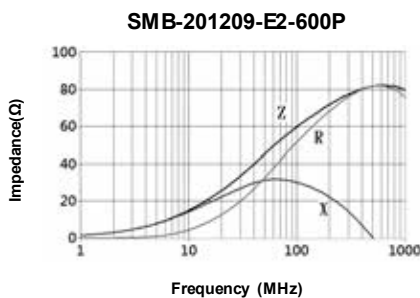
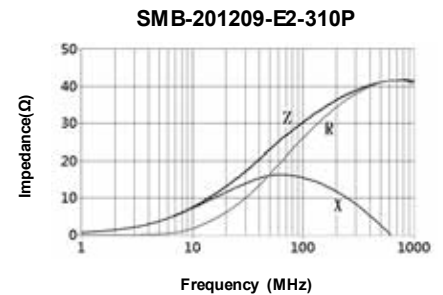
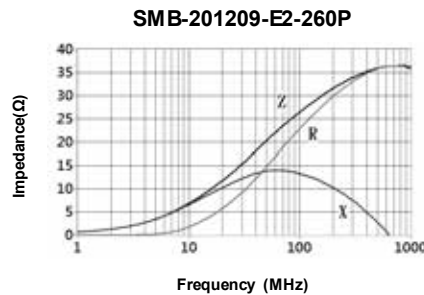
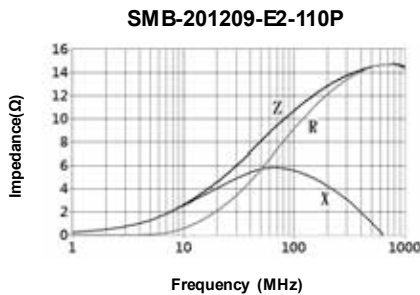


【SMB-201209 P type】

Part No.	Impedance (Ω) at 100MHz	DCR (Ω) Max.	Rated Current (mA) Max.
SMB-201209-E2-110P	11±25%	0.01	6000
SMB-201209-E2-260P	26±25%	0.02	4000
SMB-201209-E2-310P	31±25%	0.02	4000
SMB-201209-E2-600P	60±25%	0.03	3000
SMB-201209-E2-800P	80±25%	0.04	3000
SMB-201209-E2-121P	120±25%	0.04	3000
SMB-201209-E2-151P	150±25%	0.05	2500
SMB-201209-E2-181P	180±25%	0.05	2500
SMB-201209-E2-201P	200±25%	0.05	2500
SMB-201209-E2-301P	300±25%	0.08	2000
SMB-201209-E2-501P	500±25%	0.10	2000
SMB-201209-E2-601P	600±25%	0.10	2000
SMB-201209-E2-102P	1000±25%	0.12	1500

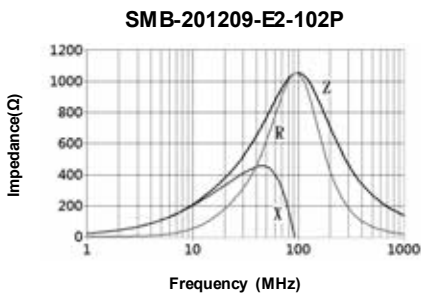
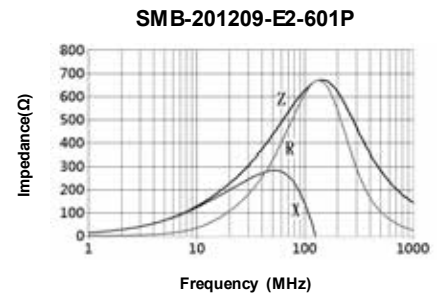
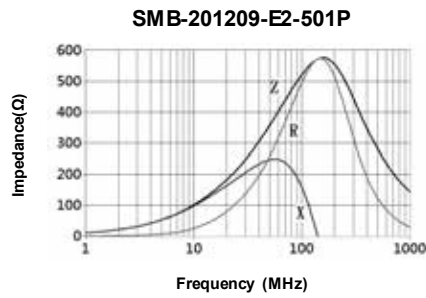
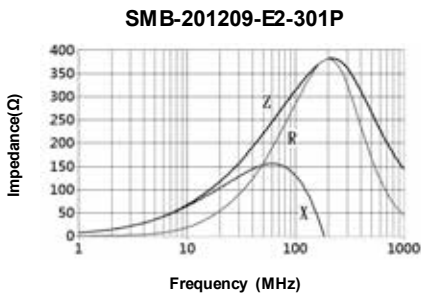
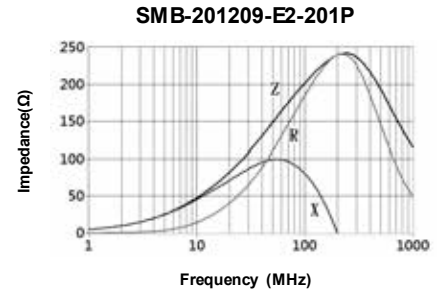
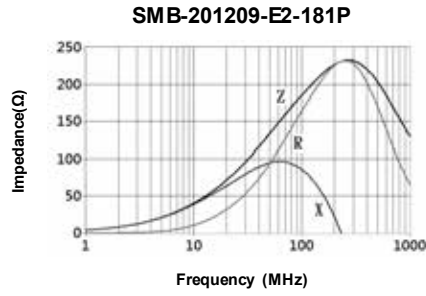
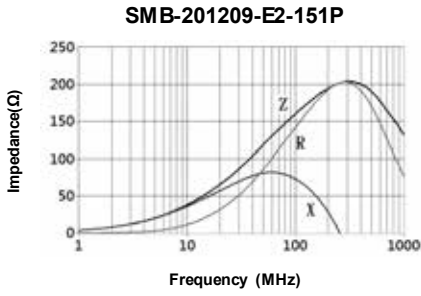
EMI/EMC Type

Typical electrical curves :





Typical electrical curves :



EMI/EMC Type

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better know n.