EMC Components

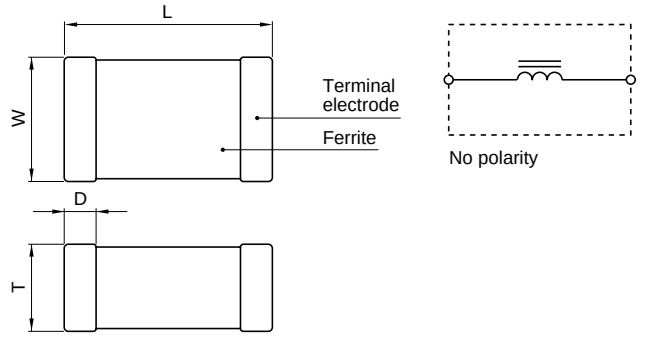
Ferrite Beads
SMD

ACB Series

FEATURES

- The ACB series provide effective EMC suppression in signal lines through simple in-series implementation. It is thus ideal for circuits in which it is difficult to bypass high-frequency components to ground.
- Reflection components are highly suppressed through the use of a special ferrite material and an advanced internal structure that minimizes stray capacitance. This product is, therefore, an excellent countermeasure for noise radiation in high-speed digital signal lines.
- The ultra-miniature 1.6 × 0.8 mm part exhibits a 600Ω impedance at 100MHz, which is the larger type 2012.
- Both the 1608 and 2012 types are available in a large number of impedance values. Different characteristics can thus be achieved without changing PC board land patterns.

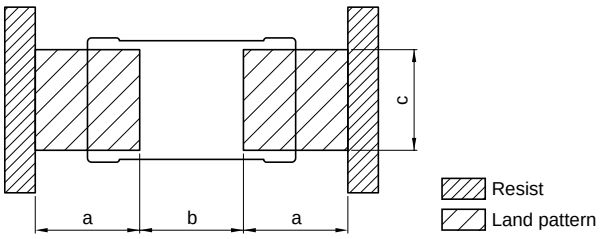
SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



Dimensions in mm

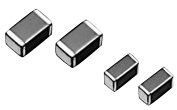
Shape	L	W	T	D
1608	1.6±0.15	0.8+0.3, –0.1	0.8+0.3, –0.1	0.3±0.2
2012	2±0.2	1.25±0.2	0.9±0.2	0.4±0.2

RECOMMENDED PC BOARD PATTERNS
REFLOW AND FLOW SOLDERING



Dimensions in mm

Type	a	b	c
ACB1608	1	0.6	0.8
ACB2012	1	1	1



ELECTRICAL CHARACTERISTICS

Part No.	Impedance (Ω) [100MHz]	DC resistance (Ω)max.	Rated current (mA)max.
ACB1608L-015-□*	15±25%	0.1	500
ACB1608L-030-□	30±25%	0.3	400
ACB1608L-060-□	60±25%	0.4	300
ACB1608L-120-□	120±25%	0.5	200
ACB1608L-300-□	300±25%	1.5	200
ACB1608M-040-□	40±25%	0.3	400
ACB1608M-080-□	80±25%	0.5	300
ACB1608M-120-□	120±25%	0.7	200
ACB1608M-300-□	300±25%	1.2	150
ACB1608M-600-□	600±25%	1.8	100
ACB1608H-015-□	15±25%	0.3	400
ACB1608H-030-□	30±25%	0.4	300
ACB1608H-060-□	60±25%	0.7	200
ACB1608H-120-□	120±25%	1.2	150
ACB1608H-300-□	300±25%	1.8	100
ACB2012L-015-□	15±25%	0.1	600
ACB2012L-030-□	30±25%	0.3	500
ACB2012L-060-□	60±25%	0.4	400
ACB2012L-120-□	120±25%	0.5	300
ACB2012L-300-□	300±25%	1	250
ACB2012L-600-□	600±25%	2	150
ACB2012M-040-□	40±25%	0.3	500
ACB2012M-080-□	80±25%	0.4	400
ACB2012M-120-□	120±25%	0.5	300
ACB2012M-300-□	300±25%	0.9	200
ACB2012M-600-□	600±25%	1.3	100
ACB2012H-015-□	15±25%	0.3	400
ACB2012H-030-□	30±25%	0.4	300
ACB2012H-060-□	60±25%	0.5	300
ACB2012H-120-□	120±25%	0.9	200
ACB2012H-300-□	300±25%	1.3	100

* □:Packaging style (T: Taping [ø180mm reel], TL: Taping [ø330mm reel], B: Bulk)

EMC Components

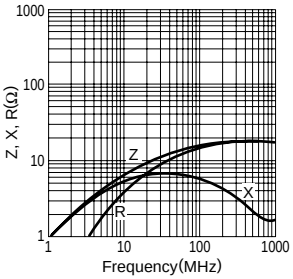
ACB Series

Ferrite Beads
SMD

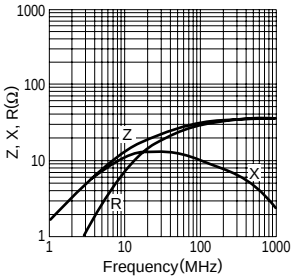
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

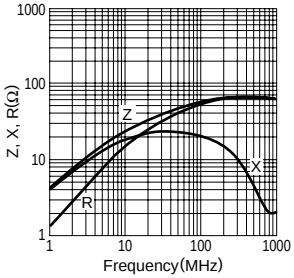
ACB1608L-015



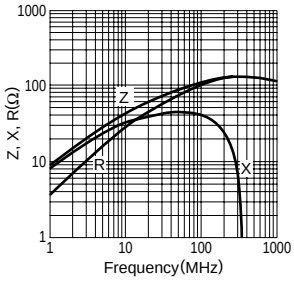
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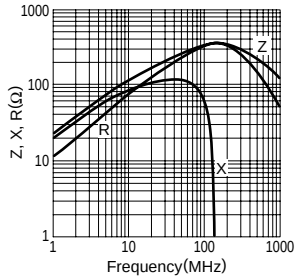
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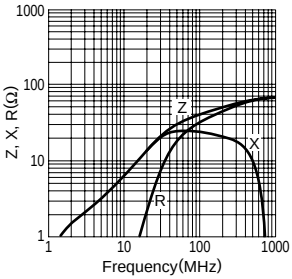
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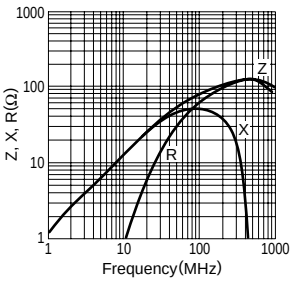
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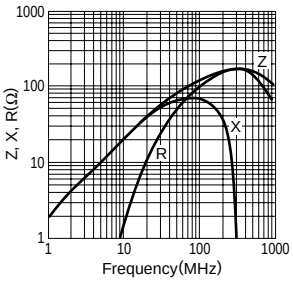
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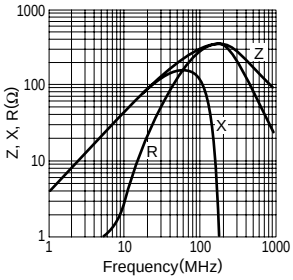
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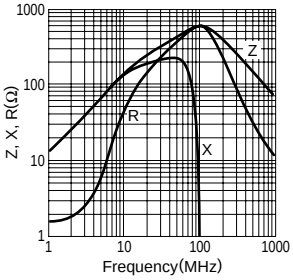
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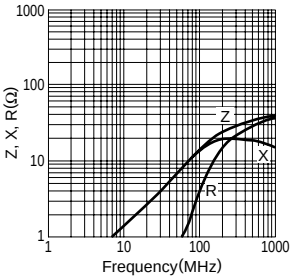
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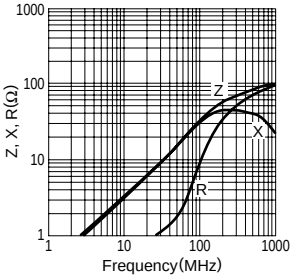
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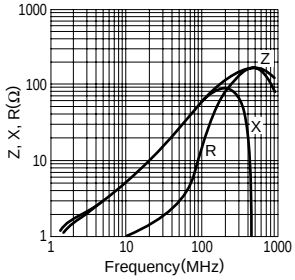
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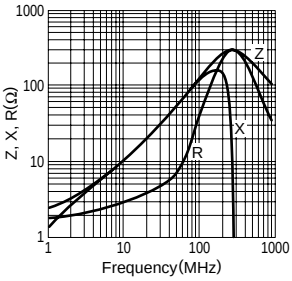
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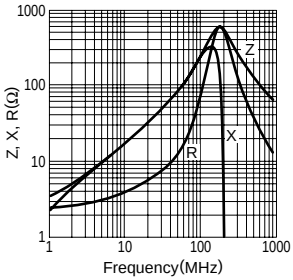
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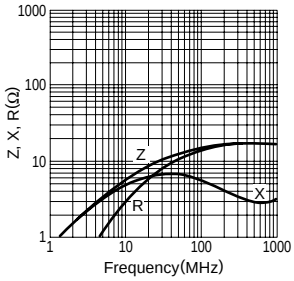
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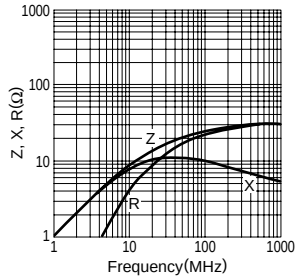
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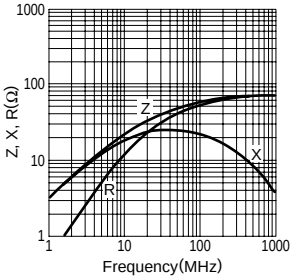
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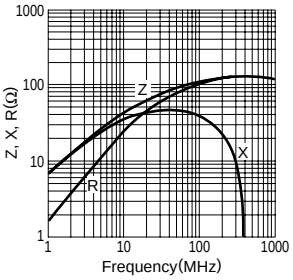
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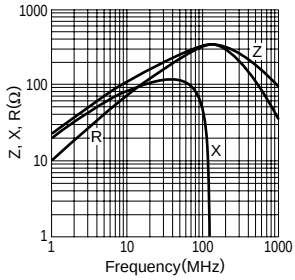
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ACB2012L-120



ACB2012L-300



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

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TDK

EMC Components

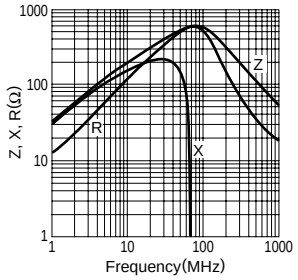
ACB Series

Ferrite Beads
SMD

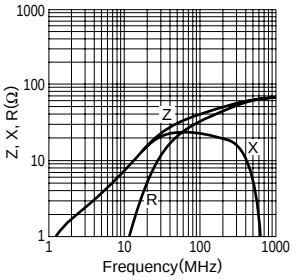
TYPICAL ELECTRICAL CHARACTERISTICS

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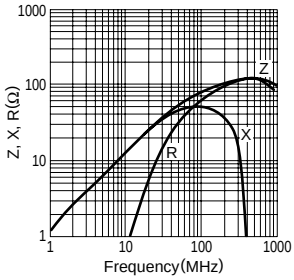
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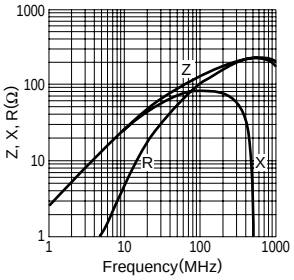
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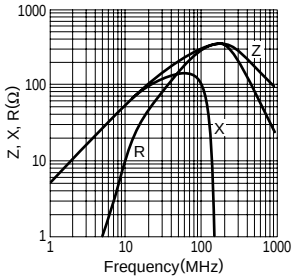
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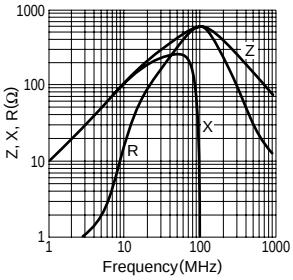
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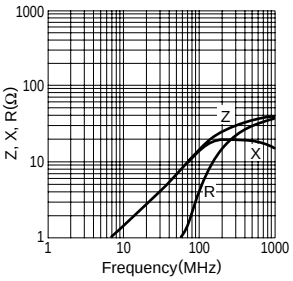
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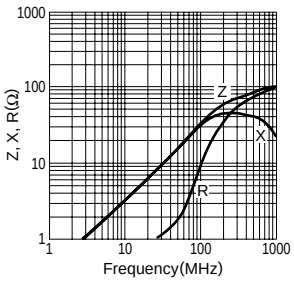
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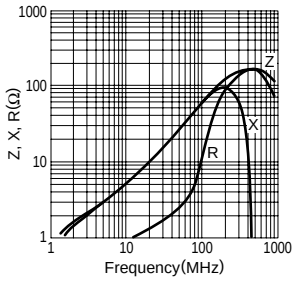
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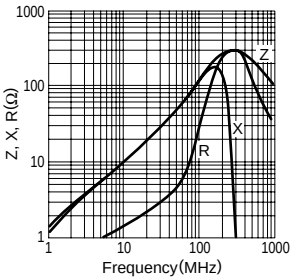
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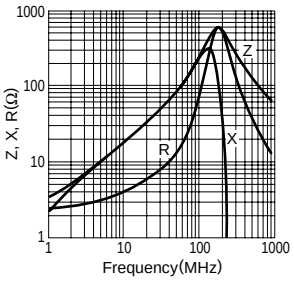
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ACB2012H-120



ACB2012H-300



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