



**THE DATASHEET OF
ACB1608L-015-T**



EMC Components

Ferrite Beads

SMD

ACB Series

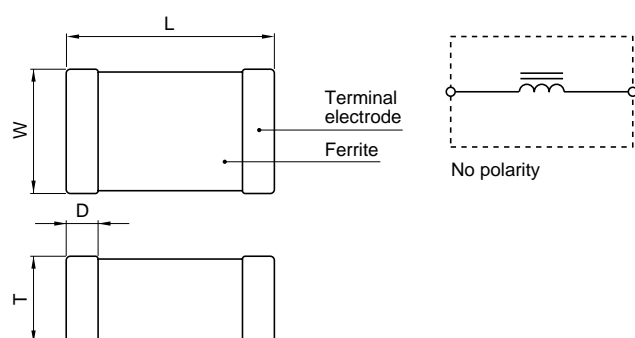
FEATURES

- 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 excel-

lent 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

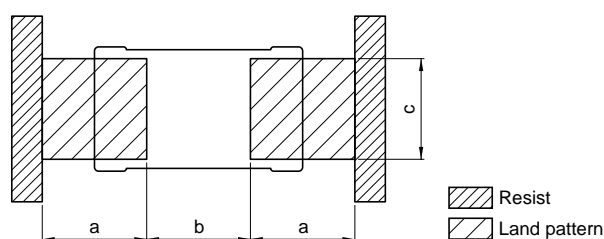


Dimensions in mm

| Shape | L | W | T | D |
|-------|----------------|---------------------|---------------------|---------------|
| 1608 | 1.6 ± 0.15 | $0.8 \pm 0.3, -0.1$ | $0.8 \pm 0.3, -0.1$ | 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



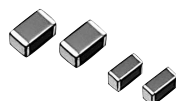
Dimensions in mm

| 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-□* | $15 \pm 25\%$ | 0.1 | 500 |
| ACB1608L-030-□ | $30 \pm 25\%$ | 0.3 | 400 |
| ACB1608L-060-□ | $60 \pm 25\%$ | 0.4 | 300 |
| ACB1608L-120-□ | $120 \pm 25\%$ | 0.5 | 200 |
| ACB1608L-300-□ | $300 \pm 25\%$ | 1.5 | 200 |
| ACB1608M-040-□ | $40 \pm 25\%$ | 0.3 | 400 |
| ACB1608M-080-□ | $80 \pm 25\%$ | 0.5 | 300 |
| ACB1608M-120-□ | $120 \pm 25\%$ | 0.7 | 200 |
| ACB1608M-300-□ | $300 \pm 25\%$ | 1.2 | 150 |
| ACB1608M-600-□ | $600 \pm 25\%$ | 1.8 | 100 |
| ACB1608H-015-□ | $15 \pm 25\%$ | 0.3 | 400 |
| ACB1608H-030-□ | $30 \pm 25\%$ | 0.4 | 300 |
| ACB1608H-060-□ | $60 \pm 25\%$ | 0.7 | 200 |
| ACB1608H-120-□ | $120 \pm 25\%$ | 1.2 | 150 |
| ACB1608H-300-□ | $300 \pm 25\%$ | 1.8 | 100 |
| ACB2012L-015-□ | $15 \pm 25\%$ | 0.1 | 600 |
| ACB2012L-030-□ | $30 \pm 25\%$ | 0.3 | 500 |
| ACB2012L-060-□ | $60 \pm 25\%$ | 0.4 | 400 |
| ACB2012L-120-□ | $120 \pm 25\%$ | 0.5 | 300 |
| ACB2012L-300-□ | $300 \pm 25\%$ | 1 | 250 |
| ACB2012L-600-□ | $600 \pm 25\%$ | 2 | 150 |
| ACB2012M-040-□ | $40 \pm 25\%$ | 0.3 | 500 |
| ACB2012M-080-□ | $80 \pm 25\%$ | 0.4 | 400 |
| ACB2012M-120-□ | $120 \pm 25\%$ | 0.5 | 300 |
| ACB2012M-300-□ | $300 \pm 25\%$ | 0.9 | 200 |
| ACB2012M-600-□ | $600 \pm 25\%$ | 1.3 | 100 |
| ACB2012H-015-□ | $15 \pm 25\%$ | 0.3 | 400 |
| ACB2012H-030-□ | $30 \pm 25\%$ | 0.4 | 300 |
| ACB2012H-060-□ | $60 \pm 25\%$ | 0.5 | 300 |
| ACB2012H-120-□ | $120 \pm 25\%$ | 0.9 | 200 |
| ACB2012H-300-□ | $300 \pm 25\%$ | 1.3 | 100 |

* □: Packaging style (T: Taping [ϕ 180mm reel], TL: Taping [ϕ 330mm reel], B: Bulk)



EMC Components

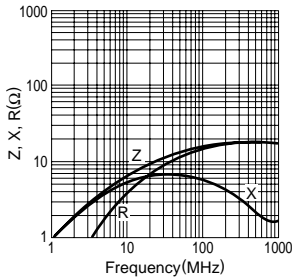
ACB Series

Ferrite Beads SMD

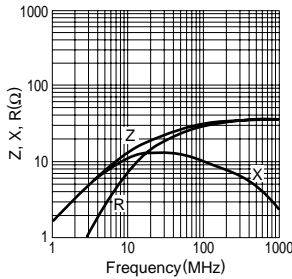
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

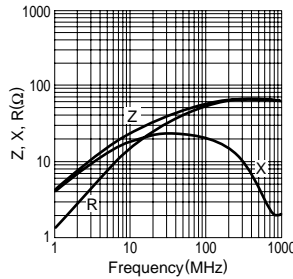
ACB1608L-015



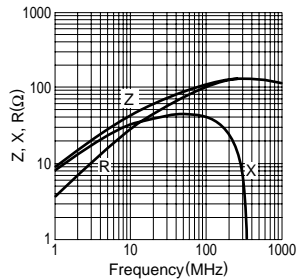
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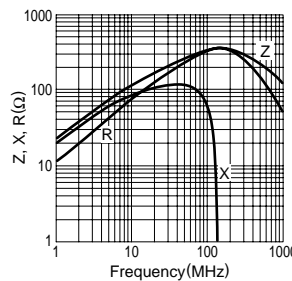
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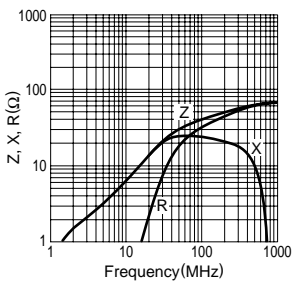
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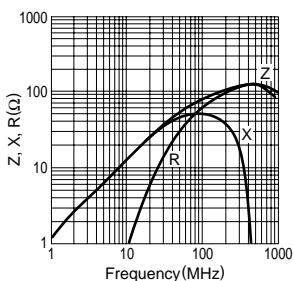
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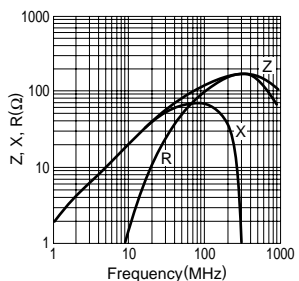
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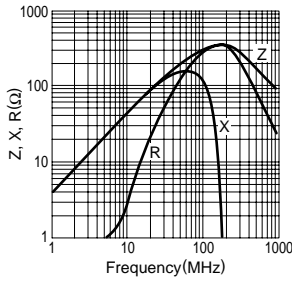
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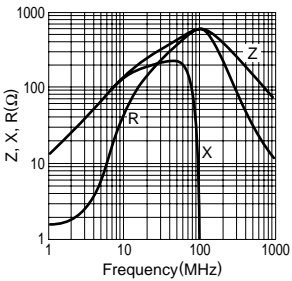
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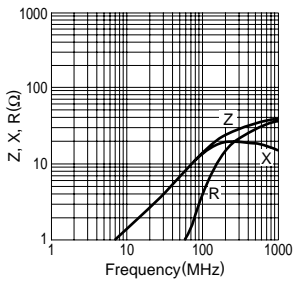
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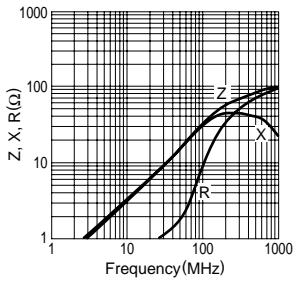
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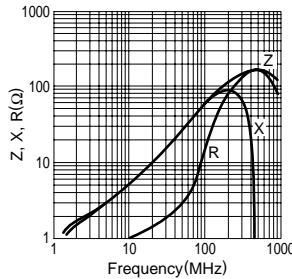
ACB1608H-015



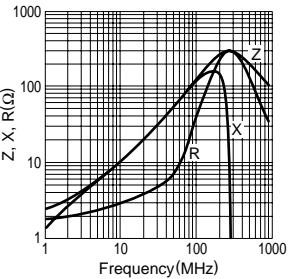
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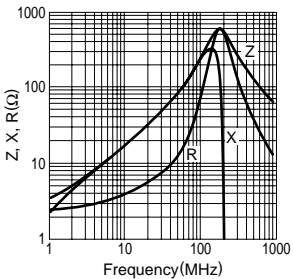
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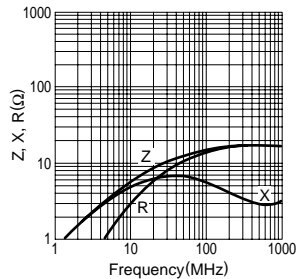
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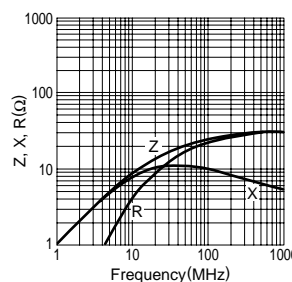
ACB1608H-300



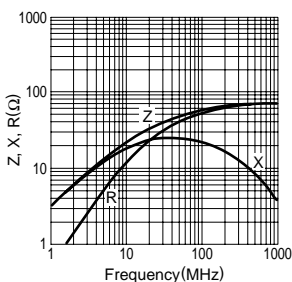
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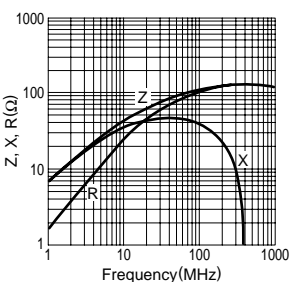
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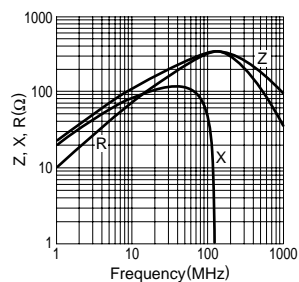
ACB2012L-060



ACB2012L-120



ACB2012L-300



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

⚠ Specifications which provide more details for the proper and safe use of the described product are available upon request.
All specifications are subject to change without notice.

EMC Components

Ferrite Beads

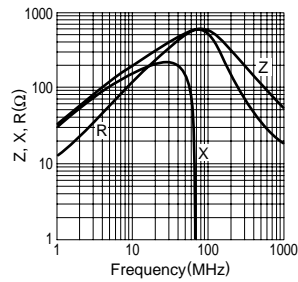
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ACB Series

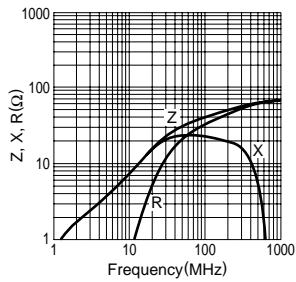
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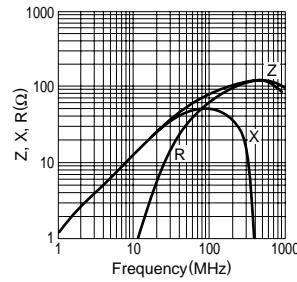
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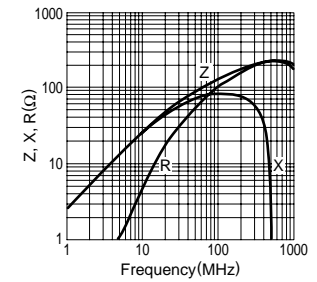
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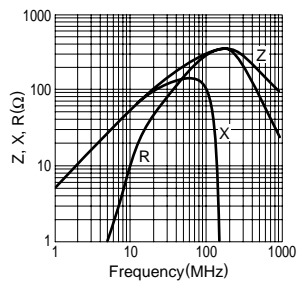
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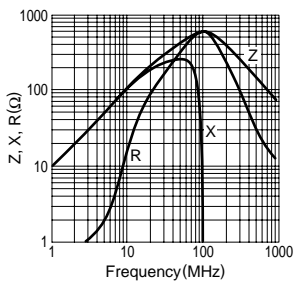
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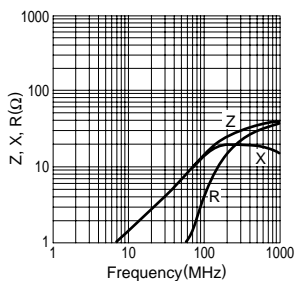
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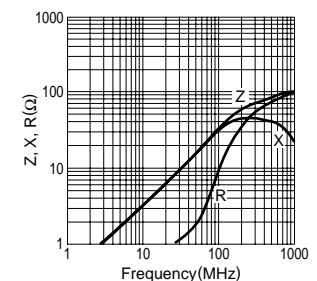
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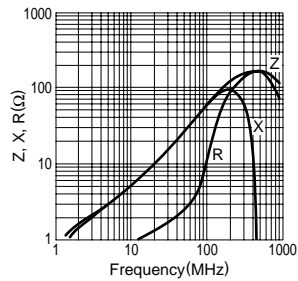
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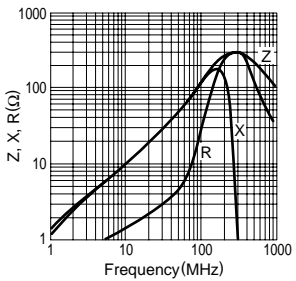
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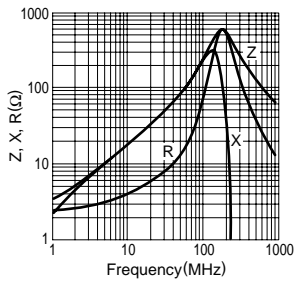
ACB2012H-060



ACB2012H-120




ACB2012H-300



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

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