

FERRITE CHIP BEADS

EMI Suppression Chip Bead



ACB SERIES

The ACB series is a small, high impedance type ferrite chip EMI suppressor. Especially ACB1608 type is microminiaturized (1.6L x 0.8Wmm [.063 x .031 inches]) and yet has a high impedance (300Ω, f=100MHz), requiring a smaller space and having greater EMI suppression effects.

Features

- The series is microminiaturized (1.6L x 0.8Wmm [.063 x .031 inches]) and has a high impedance (600Ω, f=100MHz) because of its unique internal structure.
- High density packaging with a pitch of 2.54mm [.100 inches] max. is possible. The series requires less space and has great EMI suppression effects.
- Excellent in physical properties such as terminal strength, flexure strength, soldering heat resistance, and solderability.
- Applicable to both of reflow and flow solderings.

Product Identification

ACB 1608 M - 300 - T
 (1) (2) (3) (4) (5)

(1) Series name

(2) Dimensions (mm) [inches]

| Type | L | W | T | D |
|------|-------------------------|--|--|------------------------|
| 1608 | 1.6±0.15 [.063±.006] | 0.8 ^{+0.3} _{-0.1} [.031 ^{+0.12} _{-0.04}] | 0.8 ^{+0.3} _{-0.1} [.031 ^{+0.12} _{-0.04}] | 0.3±0.2 [.012±.008] |
| 2012 | 2.0±0.2 [.079±.008] | 1.25±0.2 [.049±.008] | 0.9±0.2 [.035±.008] | 0.4±0.2 [.016±.008] |
| 3216 | 3.2±0.2 [.126±.008] | 1.6±0.2 [.063±.008] | 0.9±0.2 [.035±.008] | 0.5±0.2 [.020±.008] |

(3) Frequency range

M Broad Range

(4) Impedance value

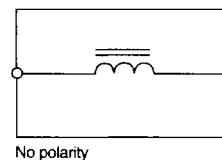
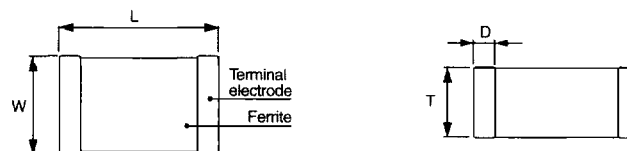
| | |
|-----|------|
| 040 | 40Ω |
| 080 | 80Ω |
| 120 | 120Ω |
| 300 | 300Ω |
| 600 | 600Ω |

(5) Packaging style

T Taping (φ180 mm [7.087 inches] reel)

Packaging quantities

| Size | T (φ178 mm [7.008 inches] reel) |
|------|---------------------------------|
| 0603 | 4000 pcs./reel |
| 0805 | 4000 pcs./reel |
| 1206 | 4000 pcs./reel |



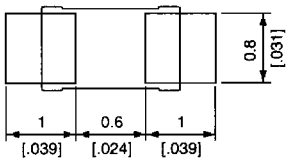
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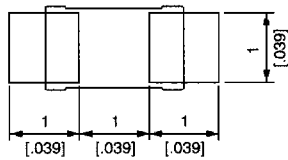
ACB SERIES

Recommended PC Board Patterns *Applicable to flow and reflow soldering. Dimensions in mm [inches].*

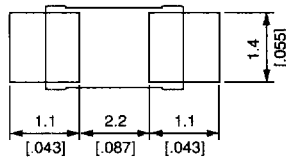
ACB1608



ACB2012



ACB3216

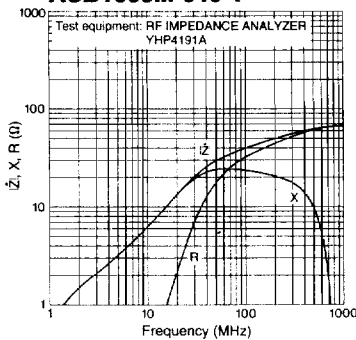


Electrical Characteristics |Z|, XL, R vs. Frequency Characteristics *(Test Equipment: RF Impedance Analyzer YHP419A)*

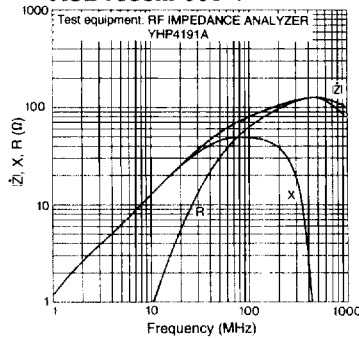
ACB1608 TYPE Dimensions (L x W): 1.6 x 0.8mm [0.063 x 0.031 inches]

| Part Number | Impedance (Ω) [100MHz] | DC resistance (Ω) max. | Rated current (mA) max. |
|----------------|---------------------------------|---------------------------------|-------------------------|
| ACB1608M-040-T | 40±25% | 0.3 | 400 |
| ACB1608M-080-T | 80±25% | 0.5 | 300 |
| ACB1608M-120-T | 120±25% | 0.7 | 200 |
| ACB1608M-300-T | 300±25% | 1.2 | 150 |
| ACB1608M-600-T | 600±25% | 1.8 | 100 |

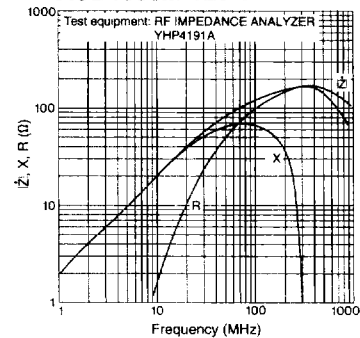
ACB1608M-040-T



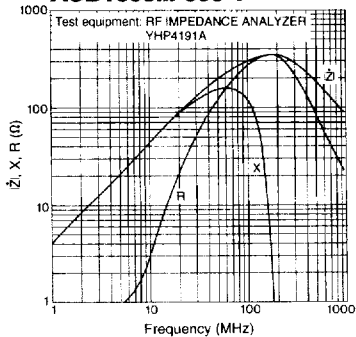
ACB1608M-080-T



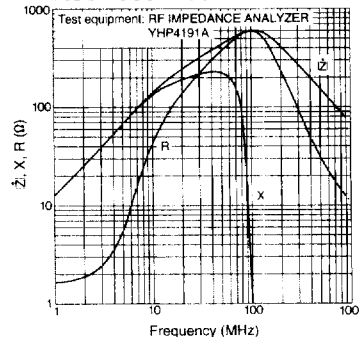
ACB1608M-120-T



ACB1608M-300-T



ACB1608M-600-T



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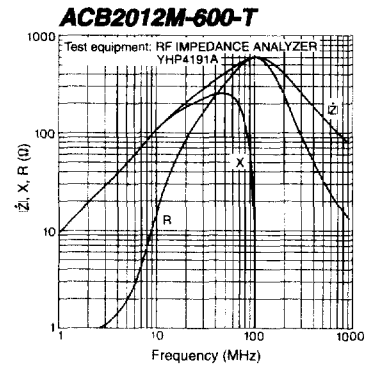
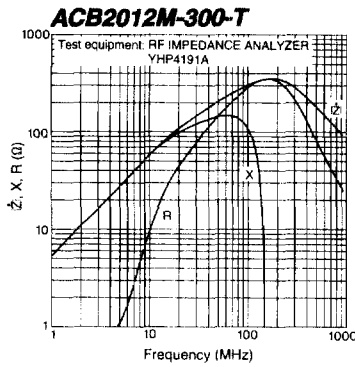
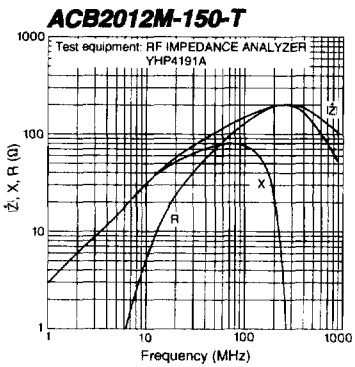
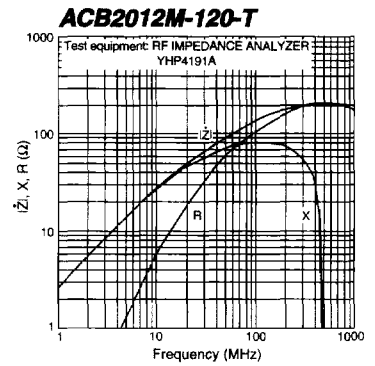
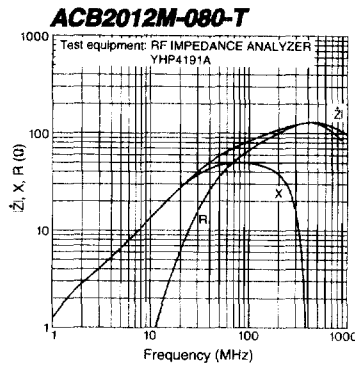
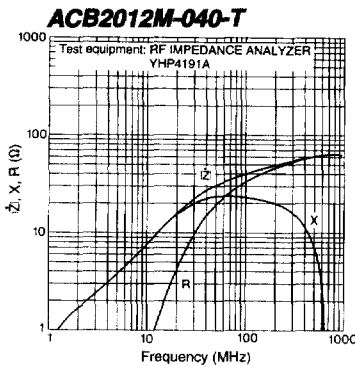
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ACB SERIES

Electrical Characteristics | ZL, R vs. Frequency Characteristics (Test Equipment: RF Impedance Analyzer YHP4191A)

ACB2012 TYPE Dimensions (L x W): 2.0 x 1.25mm [0.079 x 0.049 inches]

| Part Number | Impedance (Ω) [100MHz] | DC resistance (Ω) max. | Rated current (mA) max. |
|----------------|------------------------|------------------------|-------------------------|
| ACB2012M-040-T | 40±25% | 0.3 | 500 |
| ACB2012M-080-T | 80±25% | 0.4 | 400 |
| ACB2012M-120-T | 120±25% | 0.5 | 300 |
| ACB2012M-150-T | 150±25% | 0.5 | 300 |
| ACB2012M-300-T | 300±25% | 0.9 | 200 |
| ACB2012M-600-T | 600±25% | 1.3 | 100 |



ACB3216 TYPE Dimensions (L x W): 3.2 x 1.6mm [0.126 x 0.063 inches]

| Part Number | Impedance (Ω) [100MHz] | DC resistance (Ω) max. | Rated current (mA) max. |
|----------------|------------------------|------------------------|-------------------------|
| ACB3216M-600-T | 600±25% | 0.9 | 200 |

