

ADB Technology Co., Ltd.

Multilayer Ferrite Chip Beads / CMF Series

Feature

1. Monolithic inorganic material construction
2. Closed magnetic circuit avoids crosstalk
3. S.M.T. type
4. Suitable for flow and reflow soldering
5. Shapes and dimensions follow E.I.A. SPEC
6. Available in various sizes & 6 materials
7. Excellent soldering ability and heat resistance
8. High reliability

Application

Personal computers, communication equipment, digital telephone, electronic games machines, CRTs, hard disk drives, cellular phones, PDAs, printers and other computer peripheral products.

Suitable for I/O ports, DC power lines and signal lines, and general circuits with unstable ground.

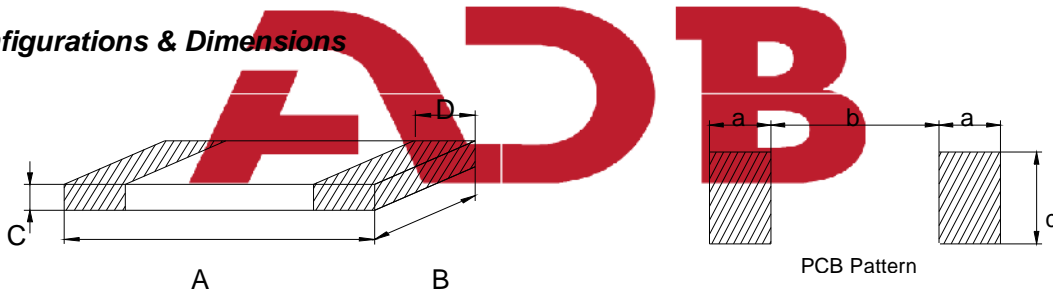
Product Identification

CMF 1608 RL 120

1 2 3 4

1. Series name
2. Dimension. (See Details)
3. Material.
4. Impedance.
(300=30Ω 601=600Ω)

Configurations & Dimensions



| Series Name | A | B | C | D | a | b | c |
|-------------|------------|------------|------------|------------|-----------|-----------|-----------|
| CMF1005 | 1.0 ± 0.1 | 0.5 ± 0.1 | 0.5 ± 0.1 | 0.25 ± 0.1 | 0.8(REF) | 0.5(REF) | 0.55(REF) |
| CMF1608 | 1.6 ± 0.15 | 0.8 ± 0.15 | 0.8 ± 0.15 | 0.3 ± 0.2 | 0.8(REF) | 0.5(REF) | 0.55(REF) |
| CMF2012 | 2.0 ± 0.2 | 1.25 ± 0.2 | 0.85 ± 0.2 | 0.5 ± 0.3 | 1.0(REF) | 1.0(REF) | 1.0(REF) |
| CMF3216 | 3.2 ± 0.2 | 1.6 ± 0.2 | 1.1 ± 0.2 | 0.5 ± 0.3 | 1.1(REF) | 2.2(REF) | 1.4(REF) |
| CMF3225 | 3.2 ± 0.2 | 2.5 ± 0.2 | 1.3 ± 0.2 | 0.5 ± 0.3 | 1.1(REF) | 2.2(REF) | 3.4(REF) |
| CMF4516 | 4.5 ± 0.2 | 1.6 ± 0.2 | 1.6 ± 0.2 | 0.5 ± 0.3 | 1.5(REF) | 2.7(REF) | 1.4(REF) |
| CMF4532 | 4.5 ± 0.2 | 3.2 ± 0.2 | 1.5 ± 0.2 | 0.5 ± 0.3 | 1.65(REF) | 2.57(REF) | 4.22(REF) |

Unit: mm

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Electrical Characteristics

| CMF1005 Series | | | | |
|----------------|-----------------------------|---------------------------|-----------------------------|------------------------------|
| Part Number | Impedance () $\pm 25\%$ | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF1005RL300 | 30 | 100 | 200 | 300 |
| CMF1005RL600 | 60 | 100 | 250 | 300 |
| CMF1005RL121 | 120 | 100 | 300 | 100 |
| CMF1005RL151 | 150 | 100 | 300 | 100 |
| CMF1005RL221 | 220 | 100 | 400 | 100 |
| CMF1005RL301 | 300 | 100 | 500 | 100 |
| CMF1005RL471 | 470 | 100 | 650 | 100 |
| CMF1005RL601 | 600 | 100 | 800 | 80 |
| CMF1005ML600 | 60 | 100 | 300 | 100 |
| CMF1005ML121 | 120 | 100 | 450 | 80 |
| CMF1005ML221 | 220 | 100 | 600 | 50 |
| CMF1005ML301 | 300 | 100 | 750 | 50 |

The logo for ADB Technology Co., Ltd. consists of the letters 'A', 'D', and 'B' in a bold, red, sans-serif font. The 'A' and 'D' are connected at the top, and the 'B' is positioned to the right of the 'D'.

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Multilayer Ferrite Chip Beads / CMF Series

Electrical Characteristics

| <i>CMF1608 Series</i> | | | | |
|-----------------------|--------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Part Number | Impedance () ± 25% | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF1608RL300 | 30 | 100 | 200 | 700 |
| CMF1608RL600 | 60 | 100 | 200 | 700 |
| CMF1608RL121 | 120 | 100 | 250 | 600 |
| CMF1608RL151 | 150 | 100 | 250 | 600 |
| CMF1608RL221 | 220 | 100 | 300 | 550 |
| CMF1608RL301 | 300 | 100 | 350 | 500 |
| CMF1608RL471 | 470 | 100 | 450 | 350 |
| CMF1608RL601 | 600 | 100 | 500 | 350 |
| CMF1608RL102 | 1000 | 100 | 700 | 200 |
| CMF1608HL152 | 1500 | 100 | 1,000 | 200 |
| CMF1608HL202 | 2000 | 100 | 1,200 | 150 |
| CMF1608BL100 | 10 | 100 | 200 | 700 |
| CMF1608BL300 | 30 | 100 | 250 | 600 |
| CMF1608BL600 | 60 | 100 | 300 | 600 |
| CMF1608BL121 | 120 | 100 | 400 | 300 |
| CMF1608BL151 | 150 | 100 | 400 | 300 |
| CMF1608BL221 | 220 | 100 | 600 | 250 |
| CMF1608BL301 | 300 | 100 | 800 | 200 |
| CMF1608BL471 | 470 | 100 | 850 | 200 |
| CMF1608BL601 | 600 | 100 | 1,200 | 150 |
| CMF1608BL102 | 1000 | 100 | 1,500 | 80 |
| CMF1608WL121 | 120 | 100 | 2,500 | 300 |
| CMF1608WL151 | 150 | 100 | 300 | 250 |
| CMF1608WL221 | 220 | 100 | 350 | 200 |
| CMF1608WL301 | 300 | 100 | 450 | 250 |
| CMF1608WL471 | 470 | 100 | 550 | 200 |
| CMF1608WL601 | 600 | 100 | 700 | 200 |
| CMF1608WL801 | 800 | 100 | 800 | 100 |
| CMF1608WL102 | 1000 | 100 | 900 | 100 |

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Multilayer Ferrite Chip Beads / CMF Series

Electrical Characteristics

| <i>CMF2012 Series</i> | | | | |
|-----------------------|--------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Part Number | Impedance () ± 25% | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF2012RL110 _ | 11 | 100 | 100 | 900 |
| CMF2012RL170 _ | 17 | 100 | 100 | 600 |
| CMF2012RL260 _ | 26 | 100 | 100 | 600 |
| CMF2012RL300 _ | 30 | 100 | 100 | 600 |
| CMF2012RL400 _ | 40 | 100 | 100 | 600 |
| CMF2012RL600 _ | 60 | 100 | 100 | 900 |
| CMF2012RL121 _ | 120 | 100 | 200 | 800 |
| CMF2012RL151 _ | 150 | 100 | 200 | 800 |
| CMF2012RL221 _ | 220 | 100 | 300 | 750 |
| CMF2012RL301 _ | 300 | 100 | 300 | 700 |
| CMF2012RL331 __ | 330 | 100 | 330 | 700 |
| CMF2012RL471 _ | 470 | 100 | 350 | 700 |
| CMF2012RL601 _ | 600 | 100 | 400 | 500 |
| CMF2012RL801 _ | 800 | 100 | 400 | 450 |
| CMF2012RL102 __ | 1000 | 100 | 450 | 400 |
| CMF2012HL102 __ | 1000 | 100 | 450 | 400 |
| CMF2012BL152 _ | 1500 | 100 | 500 | 350 |
| CMF2012BL202 _ | 2000 | 100 | 600 | 250 |
| CMF2012BL300 _ | 30 | 100 | 200 | 700 |
| CMF2012BL600 _ | 60 | 100 | 200 | 700 |
| CMF2012BL121 _ | 120 | 100 | 250 | 600 |
| CMF2012BL151 _ | 150 | 100 | 250 | 600 |
| CMF2012BL221 _ | 220 | 100 | 300 | 400 |
| CMF2012BL301 _ | 300 | 100 | 350 | 400 |
| CMF2012WL120 _ | 12 | 100 | 150 | 300 |
| CMF2012WL151 _ | 150 | 100 | 200 | 300 |
| CMF2012WL221 _ | 220 | 100 | 300 | 250 |
| CMF2012WL301 _ | 300 | 100 | 350 | 200 |
| CMF2012WL471 _ | 470 | 100 | 400 | 200 |
| CMF2012WL601 _ | 600 | 100 | 450 | 200 |
| CMF2012WL801 _ | 800 | 100 | 550 | 150 |
| CMF2012WL102 _ | 1000 | 100 | 650 | 100 |

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Multilayer Ferrite Chip Beads / CMF Series

Electrical Characteristics

| CMF3216 Series | | | | |
|-----------------------|--------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Part Number | Impedance () ± 25% | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF3216RL260 _ | 26 | 100 | 200 | 500 |
| CMF3216RL310 _ | 31 | 100 | 200 | 500 |
| CMF3216RL420 _ | 42 | 100 | 200 | 500 |
| CMF3216RL500 _ | 50 | 100 | 200 | 500 |
| CMF3216RL700 _ | 70 | 100 | 200 | 500 |
| CMF3216RL900 _ | 90 | 100 | 200 | 500 |
| CMF3216RL121 _ | 120 | 100 | 150 | 900 |
| CMF3216RL151 _ | 150 | 100 | 150 | 900 |
| CMF3216RL221 _ | 220 | 100 | 350 | 700 |
| CMF3216RL301 _ | 300 | 100 | 350 | 700 |
| CMF3216RL471 _ | 470 | 100 | 350 | 400 |
| CMF3216RL601 _ | 600 | 100 | 400 | 400 |
| CMF3216RL801 _ | 800 | 100 | 600 | 300 |
| CMF3216BL102 _ | 1000 | 100 | 600 | 300 |
| CMF3216BL121 _ | 120 | 100 | 250 | 700 |
| CMF3216BL151 _ | 150 | 100 | 250 | 700 |
| CMF3216BL221 _ | 220 | 100 | 300 | 600 |
| CMF3216BL301 _ | 300 | 100 | 350 | 600 |
| CMF3216BL471 _ | 470 | 100 | 400 | 550 |
| CMF3216BL601 _ | 600 | 100 | 500 | 500 |
| CMF3216BL801 _ | 800 | 100 | 500 | 400 |
| CMF3216WL102 _ | 1000 | 100 | 550 | 300 |
| CMF3216WL121 _ | 120 | 100 | 150 | 300 |
| CMF3216WL151 _ | 150 | 100 | 200 | 300 |
| CMF3216WL221 _ | 220 | 100 | 300 | 250 |
| CMF3216WL301 _ | 300 | 100 | 350 | 200 |
| CMF3216WL471 _ | 470 | 100 | 400 | 200 |
| CMF3216WL601 _ | 600 | 100 | 450 | 200 |

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Electrical Characteristics

| CMF4516 Series | | | | |
|-----------------------|--------------------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Part Number | Impedance () ± 25% | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF3225RL600 | 60 | 100 | 300 | 400 |
| CMF3225NL310 | 31 | 100 | 300 | 400 |
| CMF4516 Series | | | | |
| Part Number | Impedance () ± 25% | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF4516RL101 | 100 | 100 | 100 | 500 |
| CMF4516RL151 | 150 | 100 | 500 | 200 |
| CMF4532 Series | | | | |
| Part Number | Impedance () ± 25% | Test Frequency (MHz) | DC Resistance Max. (m) | Rated Current Max. (mA) |
| CMF4532RL131 | 130 | 100 | 400 | 300 |
| CMF4532BL250 | 25 | 100 | 400 | 300 |
| CMF4532NL700 | 70 | 100 | 400 | 300 |

