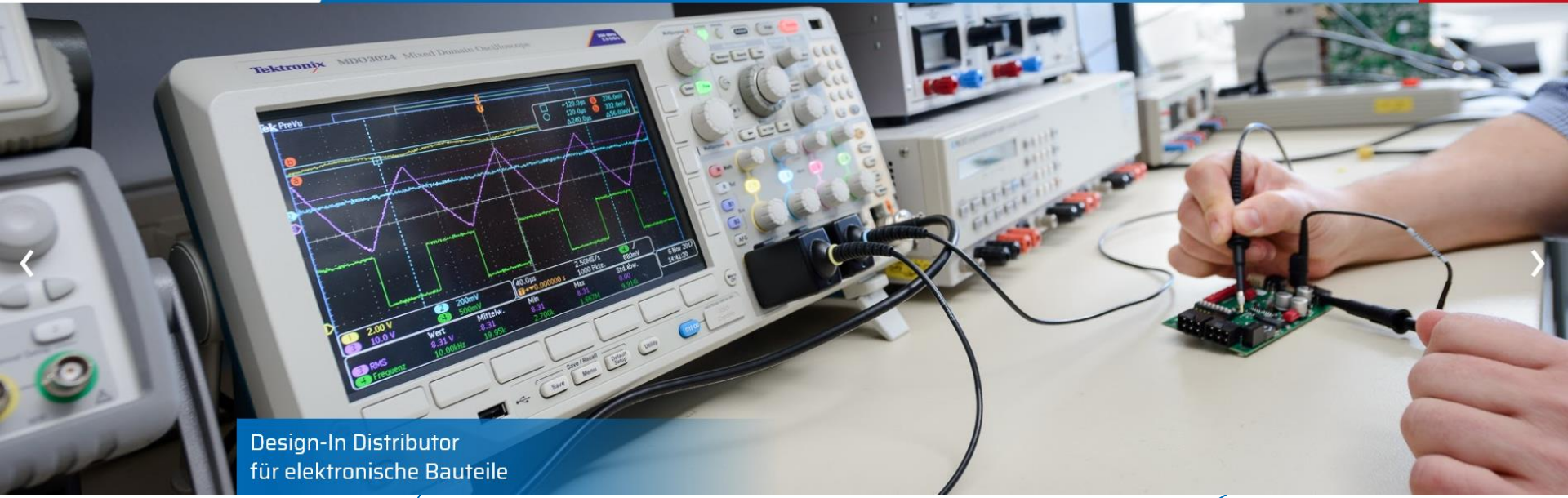
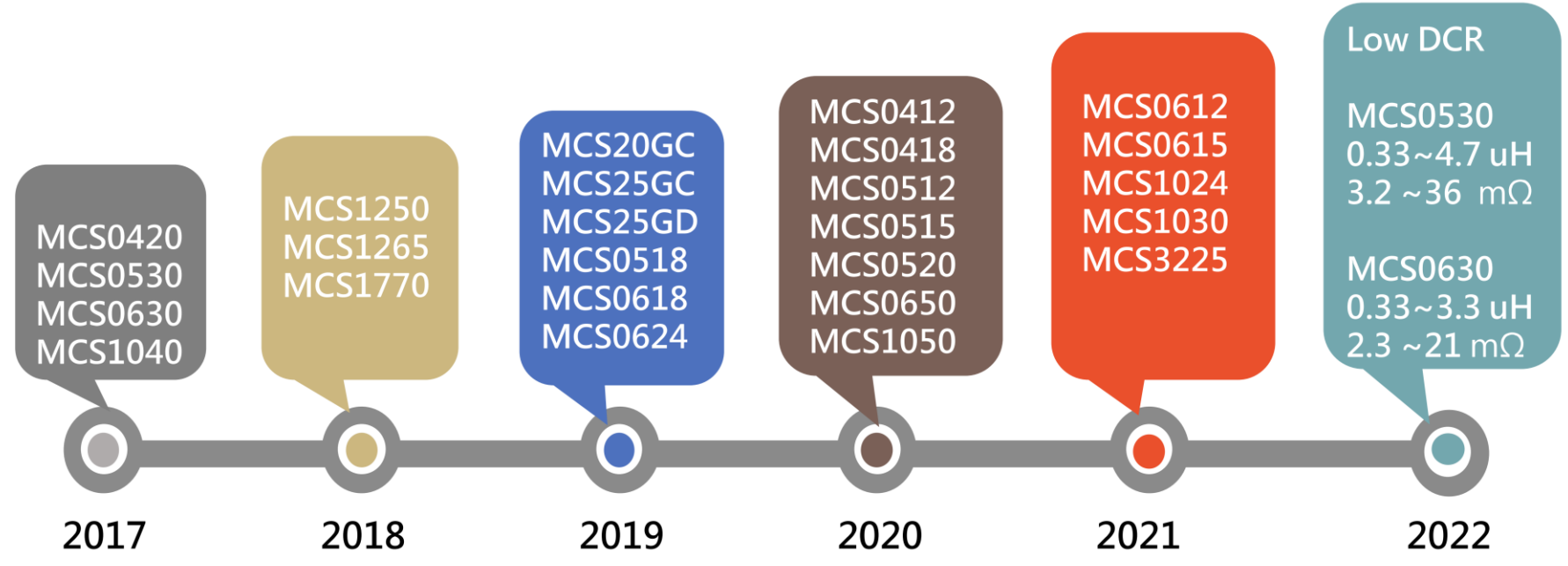


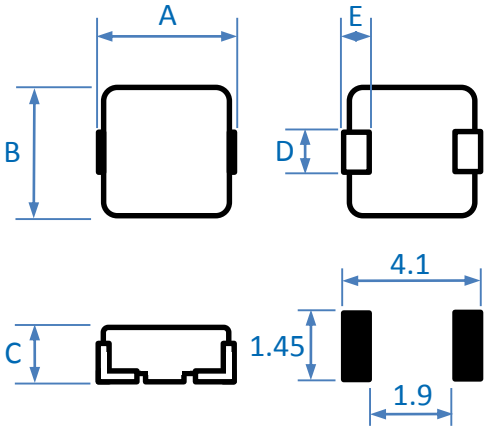

# *Metal Composite Power Inductors*
# *Metall Pulver Induktivitäten*

*June 2020*




High Current → Low Profile → Low DCR

# High Current Molding Power Chokes




Unit: mm

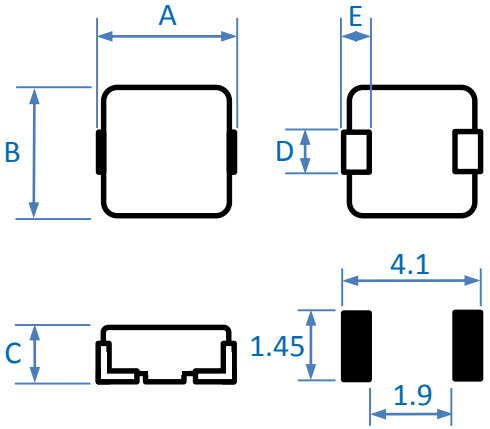
| | DIM. | TOL. |
|---|---|---|
| A | 3.5 | ±0.2 |
| B | 3.2 | ±0.2 |
| C | 1.0 | ±0.2 |
| D | 1.2 | ±0.2 |
| E | 0.7 | ±0.2 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0312-R47MT1 | 0.47 | 25 | 30 | 5.0 | 7.2 |
| MCS0312-R56MT1 | 0.56 | 31 | 36 | 4.5 | 6.6 |
| MCS0312-R68MT1 | 0.68 | 34 | 40 | 4.0 | 6.1 |
| MCS0312-R82MT1 | 0.82 | 41 | 48 | 3.5 | 5.8 |
| MCS0312-1R0MT1 | 1.0 | 50 | 60 | 3.3 | 5.5 |
| MCS0312-1R5MT1 | 1.5 | 71 | 85 | 3.0 | 4.0 |
| MCS0312-2R2MT1 | 2.2 | 98 | 115 | 2.7 | 3.4 |
| MCS0312-3R3MT1 | 3.3 | 191 | 210 | 2.0 | 3.1 |
| MCS0312-4R7MT1 | 4.7 | 266 | 293 | 1.6 | 2.8 |
| MCS0312-5R6MT1 | 5.6 | 310 | 360 | 1.5 | 2.2 |
| MCS0312-6R8MT1 | 6.8 | 360 | 400 | 1.4 | 2.0 |
| MCS0312-8R2MT1 | 8.2 | 420 | 463 | 1.2 | 1.7 |
| MCS0312-100MT1 | 10.0 | 498 | 550 | 1.0 | 1.4 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes




Unit: mm

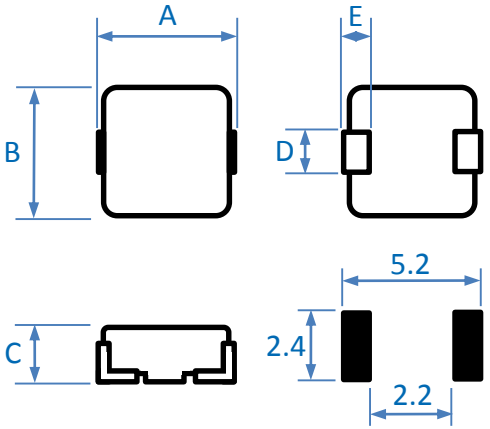
| | DIM. | TOL. |
|---|---|---|
| A | 3.5 | ±0.2 |
| B | 3.2 | ±0.2 |
| C | 1.8 | ±0.2 |
| D | 1.2 | ±0.2 |
| E | 0.7 | ±0.2 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0320-R10NT1 | 0.10 | 6.6 | 9 | 10.5 | 14.0 |
| MCS0320-R22NT1 | 0.22 | 11.0 | 14 | 9.0 | 11.2 |
| MCS0320-R33MT1 | 0.33 | 17.0 | 21 | 8.0 | 10.0 |
| MCS0320-R47MT1 | 0.47 | 19.7 | 23 | 7.0 | 9.0 |
| MCS0320-R68MT1 | 0.68 | 25.5 | 29 | 5.5 | 7.0 |
| MCS0320-1R0MT1 | 1.0 | 32.0 | 38 | 4.0 | 5.0 |
| MCS0320-1R5MT1 | 1.5 | 42.0 | 50 | 3.8 | 4.0 |
| MCS0320-2R2MT1 | 2.2 | 65.0 | 75 | 3.5 | 3.7 |
| MCS0320-3R3MT1 | 3.3 | 125 | 145 | 3.0 | 3.5 |
| MCS0320-4R7MT1 | 4.7 | 172 | 200 | 2.6 | 3.0 |
| MCS0320-5R6MT1 | 5.6 | 205 | 238 | 2.2 | 2.6 |
| MCS0320-6R8MT1 | 6.8 | 260 | 300 | 1.9 | 2.2 |
| MCS0320-8R2MT1 | 8.2 | 340 | 390 | 1.6 | 1.9 |
| MCS0320-100MT1 | 10.0 | 366 | 422 | 1.4 | 1.6 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

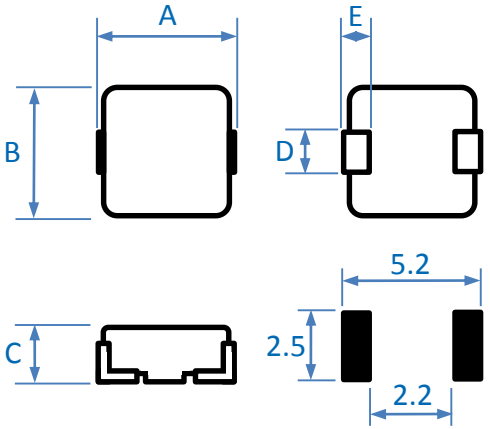
| | DIM. | TOL. |
|---|---|---|
| A | 4.45 | ±0.25 |
| B | 4.06 | ±0.25 |
| C | 1.00 | ±0.20 |
| D | 2.00 | ±0.20 |
| E | 0.76 | ±0.30 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0412-R10NT1 | 0.10 | 4.3 | 5.5 | 11.5 | 25.0 |
| MCS0412-R15NT1 | 0.15 | 5.5 | 6.8 | 10.0 | 21.5 |
| MCS0412-R22MT1 | 0.22 | 6.6 | 8.0 | 8.5 | 20.0 |
| MCS0412-R33MT1 | 0.33 | 13.6 | 16.0 | 7.0 | 11.0 |
| MCS0412-R36MT1 | 0.36 | 15.5 | 18.0 | 6.5 | 8.5 |
| MCS0412-R47MT1 | 0.47 | 18.0 | 20.0 | 6.0 | 6.5 |
| MCS0412-R60MT1 | 0.60 | 22.5 | 26.0 | 5.3 | 6.0 |
| MCS0412-R68MT1 | 0.68 | 32.0 | 37.0 | 5.0 | 6.0 |
| MCS0412-1R0MT1 | 1.0 | 41.0 | 47.0 | 4.0 | 6.0 |
| MCS0412-1R2MT1 | 1.2 | 48.0 | 56.0 | 3.5 | 5.0 |
| MCS04121R5MT1 | 1.5 | 55.0 | 63.3 | 3.0 | 4.0 |
| MCS0412-2R2MT1 | 2.2 | 69.2 | 80.0 | 2.8 | 3.5 |
| MCS0412-3R3MT1 | 3.3 | 84.0 | 97.0 | 2.3 | 3.0 |
| MCS0412-4R7MT1 | 4.7 | 128 | 145 | 2.0 | 2.5 |
| MCS0412-5R6MT1 | 5.6 | 180 | 208 | 1.7 | 2.3 |
| MCS0412-6R8MT1 | 6.8 | 300 | 360 | 1.5 | 1.7 |
| MCS0412-8R2MT1 | 8.2 | 313 | 376 | 1.4 | 1.6 |
| MCS0412-100MT1 | 10.0 | 410 | 463 | 1.3 | 1.4 |
| MCS0412-220MT1 | 22.0 | 950 | 1,050 | 0.8 | 1.0 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



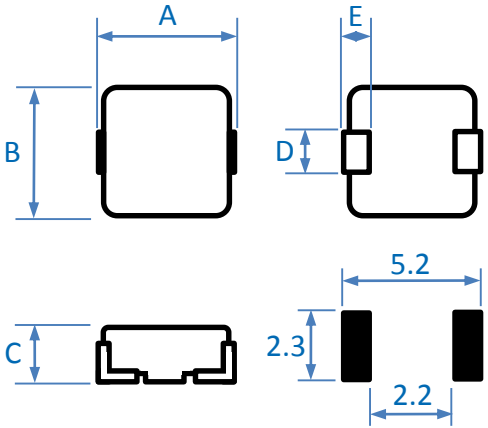

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0412-R15ME1 | 0.15 | 8.0 | 9.0 | 7.5 | 15.0 |
| MCS0412-R22ME1 | 0.22 | 9.5 | 11.0 | 7.0 | 11.0 |
| MCS0412-R33ME1 | 0.33 | 17.0 | 19.0 | 6.5 | 8.4 |
| MCS0412-R47ME1 | 0.47 | 19.0 | 21.0 | 6.0 | 6.8 |
| MCS0412-R68ME1 | 0.68 | 32.0 | 36.0 | 4.7 | 6.0 |
| MCS0412-1R0ME1 | 1.0 | 43.0 | 47.0 | 4.5 | 5.5 |
| MCS0412-1R5ME1 | 1.5 | 68.0 | 75.0 | 3.25 | 4.0 |
| MCS0412-2R2ME1 | 2.2 | 79.4 | 83.5 | 2.75 | 3.5 |
| MCS0412-4R7ME1 | 4.7 | 175 | 195 | 1.8 | 2.8 |

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 4.4 | ±0.35 |
| **B** | 4.2 | ±0.25 |
| **C** | 1.0 | ±0.20 |
| **D** | 2.0 | ±0.30 |
| **E** | 0.8 | ±0.30 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0418-R56MT1 | 0.56 | 16.0 | 20 | 6.00 | 9.0 |
| MCS0418-R68MT1 | 0.68 | 18.5 | 22 | 5.80 | 8.5 |
| MCS0418-1R0MT1 | 1.0 | 24.5 | 30 | 4.80 | 6.9 |
| MCS0418-2R2MT1 | 2.2 | 39.0 | 45 | 3.50 | 4.2 |
| MCS0418-3R3MT1 | 3.3 | 82.0 | 100 | 3.00 | 3.6 |
| MCS0418-4R7MT1 | 4.7 | 106 | 130 | 2.30 | 3.0 |
| MCS0418-100MT1 | 10.0 | 220 | 265 | 1.65 | 2.1 |

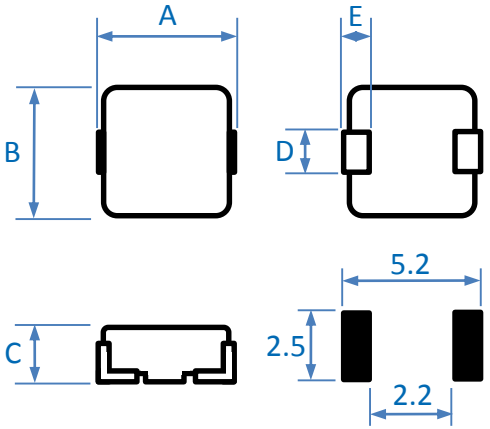
Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 4.45 | ±0.25 |
| **B** | 4.06 | ±0.25 |
| **C** | 1.60 | ±0.20 |
| **D** | 2.00 | ±0.20 |
| **E** | 0.76 | ±0.30 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes



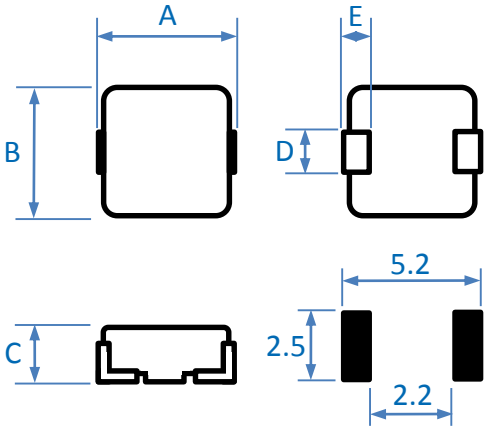

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 4.45 | ±0.25 |
| B | 4.00 | ±0.3 |
| C | 1.8 | ±0.2 |
| D | 1.5 | ±0.3 |
| E | 0.8 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0420-R10MN2 | 0.10 | 3.5 | 4.0 | 12.0 | 22.0 |
| MCS0420-R22MN2 | 0.22 | 6.0 | 6.6 | 9.0 | 12.5 |
| MCS0420-R33MN2 | 0.33 | 9.6 | 13.0 | 8.0 | 12.0 |
| MCS0420-R47MN2 | 0.47 | 12.5 | 14.0 | 7.0 | 9.5 |
| MCS0420-R68MN2 | 0.68 | 16.0 | 18.0 | 6.0 | 9.0 |
| MCS0420-1R0MN2 | 1.0 | 24.0 | 27.0 | 4.5 | 7.0 |
| MCS0420-1R5MN2 | 1.2 | 38.0 | 46.0 | 4.5 | 7.0 |
| MCS0420-2R2MN2 | 2.2 | 52.0 | 58.0 | 3.0 | 6.0 |
| MCS0420-3R3MN2 | 3.3 | 74.0 | 87.0 | 2.5 | 5.0 |
| MCS0420-4R7MN2 | 4.7 | 98.0 | 110 | 2.2 | 4.0 |
| MCS0420-5R6MN2 | 5.6 | 105 | 115 | 1.8 | 3.5 |
| MCS0420-6R8MN2 | 6.8 | 160 | 175 | 1.5 | 2.5 |
| MCS0420-100MN2 | 10 | 256 | 282 | 1.2 | 2.2 |

(1) Test Freq: 100kHz, 0.5V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



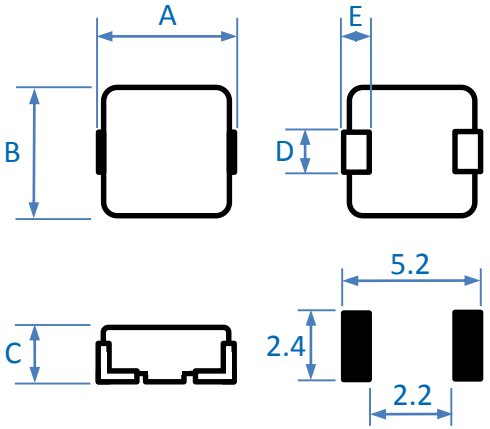

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 4.4 | ±0.35 |
| B | 4.2 | ±0.25 |
| C | 1.8 | ±0.2 |
| D | 2.0 | ±0.3 |
| E | 0.8 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0420-R10ME1 | 0.10 | 3.5 | 4.0 | 13.0 | 22.0 |
| MCS0420-R22ME1 | 0.22 | 6.0 | 6.6 | 9.5 | 12.5 |
| MCS0420-R33ME1 | 0.33 | 9.0 | 11.0 | 10.0 | 12.0 |
| MCS0420-R47ME1 | 0.47 | 12.5 | 14.0 | 7.5 | 9.5 |
| MCS0420-R56ME1 | 0.56 | 14.0 | 16.0 | 7.0 | 10.0 |
| MCS0420-R68ME1 | 0.68 | 16.0 | 18.0 | 7.0 | 9.0 |
| MCS0420-1R0ME1 | 1.0 | 24.0 | 27.0 | 6.0 | 7.0 |
| MCS0420-1R2ME1 | 1.2 | 24.0 | 27.0 | 6.0 | 7.0 |
| MCS0420-1R5ME1 | 1.5 | 38.0 | 46.0 | 5.0 | 6.0 |
| MCS0420-2R2ME1 | 2.2 | 52.0 | 58.0 | 4.5 | 5.0 |
| MCS0420-3R3ME1 | 3.3 | 74.0 | 87.0 | 3.3 | 4.0 |
| MCS0420-4R7ME1 | 4.7 | 92.0 | 105 | 2.8 | 3.0 |
| MCS0420-6R8ME1 | 6.8 | 160 | 175 | 2.4 | 2.5 |
| MCS0420-100ME1 | 10.0 | 256 | 282 | 1.6 | 2.2 |
| MCS0420-220ME1 | 22.0 | 330 | 363 | 1.2 | 1.65 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

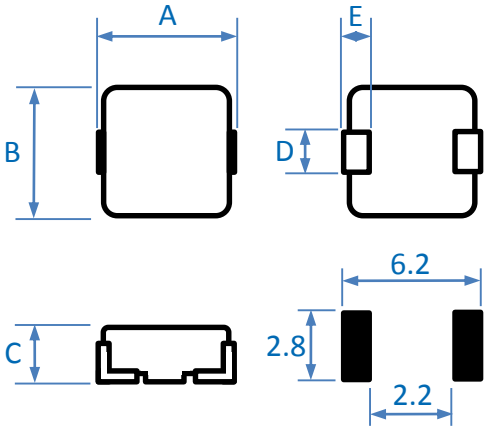
| | DIM. | TOL. |
|---|---|---|
| A | 4.45 | ±0.25 |
| B | 4.06 | ±0.25 |
| C | 1.8 | ±0.2 |
| D | 2.0 | ±0.2 |
| E | 0.76 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0420-R10NT1 | 0.10 | 3.2 | 4.0 | 14.0 | 35.0 |
| MCS0420-R18NT1 | 0.18 | 4.6 | 5.4 | 13.5 | 28.0 |
| MCS0420-R22NT1 | 0.22 | 6.6 | 7.3 | 13.0 | 24.0 |
| MCS0420-R33MT1 | 0.33 | 7.8 | 8.6 | 10.0 | 18.0 |
| MCS0420-R47MT1 | 0.47 | 11.2 | 14.0 | 8.0 | 12.0 |
| MCS0420-R56MT1 | 0.56 | 13.5 | 16.0 | 7.3 | 10.0 |
| MCS0420-R68MT1 | 0.68 | 16.0 | 19.0 | 7.0 | 10.0 |
| MCS0420-1R0MT1 | 1.0 | 22.0 | 27.0 | 5.0 | 8.5 |
| MCS0420-1R2MT1 | 1.2 | 25.0 | 30.0 | 4.8 | 7.8 |
| MCS0420-1R5MT1 | 1.5 | 34.8 | 42.0 | 4.5 | 7.0 |
| MCS0420-2R2MT1 | 2.2 | 51.0 | 61.0 | 4.0 | 6.0 |
| MCS0420-3R3MT1 | 3.3 | 69.0 | 76.0 | 3.5 | 4.0 |
| MCS0420-4R7MT1 | 4.7 | 95.0 | 105 | 2.6 | 3.5 |
| MCS0420-5R6MT1 | 5.6 | 112 | 125 | 2.2 | 3.0 |
| MCS0420-6R8MT1 | 6.8 | 150 | 172 | 2.1 | 2.8 |
| MCS0420-8R2MT1 | 8.2 | 158 | 180 | 2.0 | 2.5 |
| MCS0420-100MT1 | 10.0 | 215 | 243 | 1.8 | 2.3 |
| MCS0420-150MT1 | 15.0 | 325 | 374 | 1.5 | 1.9 |
| MCS0420-220MT1 | 22.0 | 470 | 500 | 1.2 | 1.4 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -44°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.7 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 1.0 | ±0.2 |
| D | 2.5 | ±0.3 |
| E | 1.1 | ±0.3 |

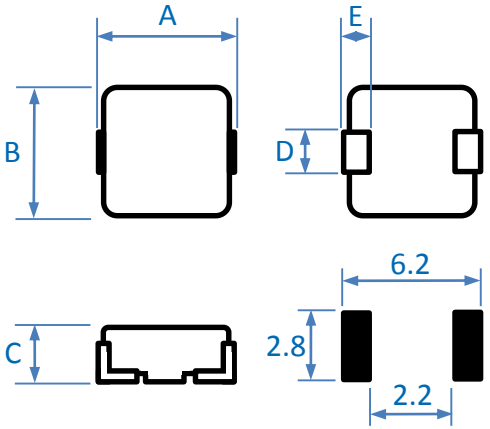
| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0512-R10NT1 | 0.10 | 4.3 | 5.2 | 14.0 | 14.5 |
| MCS0512-R22NT1 | 0.22 | 5.5 | 6.7 | 10.7 | 14.0 |
| MCS0512-R33MT1 | 0.33 | 7.8 | 9.4 | 8.5 | 13.5 |
| MCS0512-R36MT1 | 0.36 | 10.0 | 11.5 | 8.0 | 13.0 |
| MCS0512-R47MT1 | 0.47 | 13.6 | 15.8 | 7.0 | 11.0 |
| MCS0512-R68MT1 | 0.68 | 21.5 | 24.5 | 6.0 | 9.0 |
| MCS0512-1R0MT1 | 1.0 | 26.0 | 30.0 | 5.0 | 6.0 |
| MCS0512-1R2MT1 | 1.2 | 33.0 | 40.0 | 4.5 | 5.5 |
| MCS0512-1R5MT1 | 1.5 | 38.0 | 44.0 | 4.0 | 5.0 |
| MCS0512-2R2MT1 | 2.2 | 65.0 | 75.0 | 3.5 | 4.0 |
| MCS0512-3R3MT1 | 3.3 | 75.0 | 86.0 | 3.0 | 3.8 |
| MCS0512-4R7MT1 | 4.7 | 100 | 115 | 2.5 | 3.2 |
| MCS0512-5R6MT1 | 5.6 | 175 | 201 | 2.4 | 3.2 |
| MCS0512-6R8MT1 | 6.8 | 193 | 222 | 2.0 | 3.0 |
| MCS0512-8R2MT1 | 8.2 | 327 | 378 | 1.7 | 2.8 |
| MCS0512-100MT1 | 10.0 | 335 | 385 | 1.5 | 1.8 |
| MCS0512-150MT1 | 15.0 | 410 | 470 | 1.3 | 1.6 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes



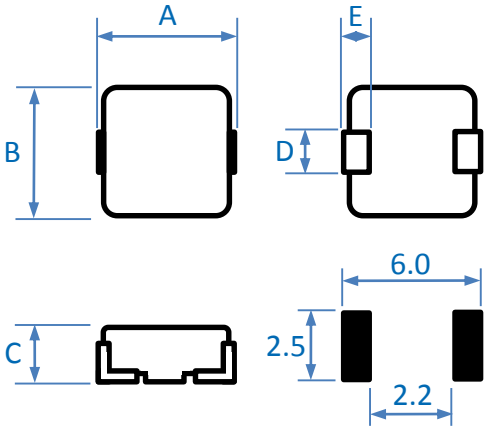

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.7 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 1.3 | ±0.2 |
| D | 2.5 | ±0.3 |
| E | 1.1 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0515-R15NT1 | 0.15 | 3.6 | 4.1 | 16.0 | 25.0 |
| MCS0515-R20NT1 | 0.20 | 3.8 | 4.2 | 15.0 | 22.5 |
| MCS0512-R22NT1 | 0.22 | 5.0 | 6.5 | 12.0 | 20.0 |
| MCS0515-R33MT1 | 0.33 | 8.5 | 9.8 | 9.0 | 16.0 |
| MCS0515-R36MT1 | 0.36 | 10.00 | 12.5 | 8.5 | 15.5 |
| MCS0515-R47MT1 | 0.47 | 12.0 | 13.8 | 8.0 | 15.0 |
| MCS0515-R68MT1 | 0.68 | 14.0 | 16.2 | 7.0 | 13.0 |
| MCS0515-1R0MT1 | 1.0 | 22.0 | 25.3 | 6.0 | 9.0 |
| MCS0515-1R5MT1 | 1.5 | 39.0 | 45.0 | 4.5 | 7.0 |
| MCS0515-2R2MT1 | 2.2 | 45.0 | 52.0 | 4.0 | 6.0 |
| MCS0515-3R3MT1 | 3.3 | 78.0 | 90.0 | 3.2 | 4.5 |
| MCS0515-4R7MT1 | 4.7 | 103 | 118 | 2.7 | 4.0 |
| MCS0515-5R6MT1 | 5.6 | 126 | 152 | 2.4 | 3.2 |
| MCS0515-6R8MT1 | 6.8 | 142 | 171 | 2.3 | 3.0 |
| MCS0515-8R2MT1 | 8.2 | 175 | 210 | 2.1 | 2.6 |
| MCS0515-100MT1 | 10.0 | 210 | 235 | 2.0 | 2.3 |
| MCS0515-220MT1 | 22.0 | 405 | 466 | 1.2 | 1.7 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C



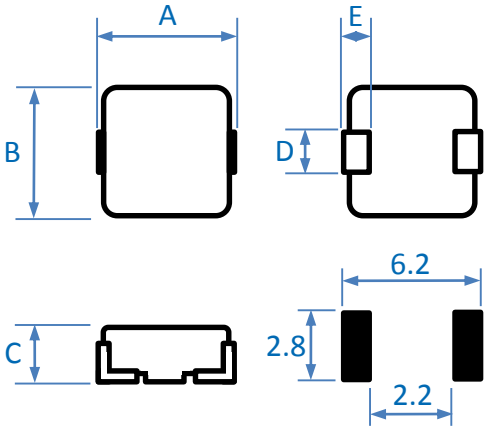

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.4 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 1.3 | ±0.2 |
| D | 2.2 | ±0.3 |
| E | 1.2 | ±0.2 |

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0515-R47ME1 | 0.47 | 11.0 | 13.0 | 9.0 | 13.0 |
| MCS0515-1R0ME1 | 1.0 | 19.0 | 23.0 | 7.0 | 9.5 |
| MCS0515-2R2ME1 | 2.2 | 57.0 | 64.0 | 4.5 | 6.0 |
| MCS0515-4R7ME1 | 4.7 | 93.0 | 103.0 | 3.5 | 4.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes

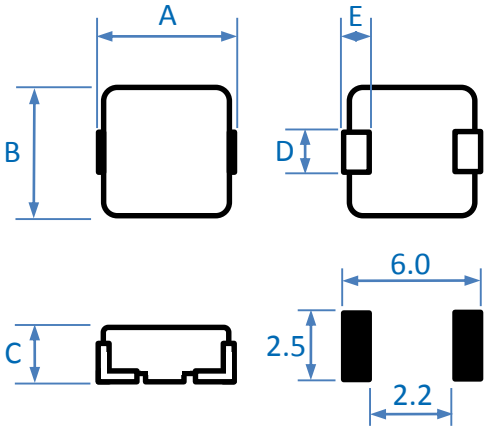



Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.7 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 1.6 | ±0.2 |
| D | 2.5 | ±0.3 |
| E | 1.1 | ±0.3 |

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0518-R22MT1 | 0.22 | 4.2 | 5.0 | 13.0 | 22.0 |
| MCS0518-R33MT1 | 0.33 | 7.5 | 8.6 | 11.0 | 15.0 |
| MSC0518-R47MT1 | 0.47 | 9.8 | 11.3 | 10.0 | 14.0 |
| MCS0518-R68MT1 | 0.68 | 12.4 | 14.3 | 9.0 | 13.0 |
| MCS0518-1R0MT1 | 1.0 | 18.2 | 21.0 | 6.8 | 10.0 |
| MCS0518-1R5MT1 | 1.5 | 26.0 | 30.0 | 6.0 | 9.0 |
| MCS0518-2R2MT1 | 2.2 | 42.0 | 48.3 | 4.5 | 7.5 |
| MCS0518-3R3MT1 | 3.3 | 60.0 | 69.0 | 3.5 | 5.0 |
| MCS0518-4R7MT1 | 4.7 | 85.0 | 98.0 | 3.0 | 4.5 |
| MCS0518-5R6MT1 | 5.6 | 110 | 127 | 2.5 | 4.0 |
| MCS0518-6R8MT1 | 6.8 | 118 | 137 | 2.4 | 3.5 |
| MCS0518-8R2MT1 | 8.2 | 143 | 165 | 2.3 | 3.0 |
| MCS0518-100MT1 | 10.0 | 165 | 190 | 2.3 | 2.8 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C



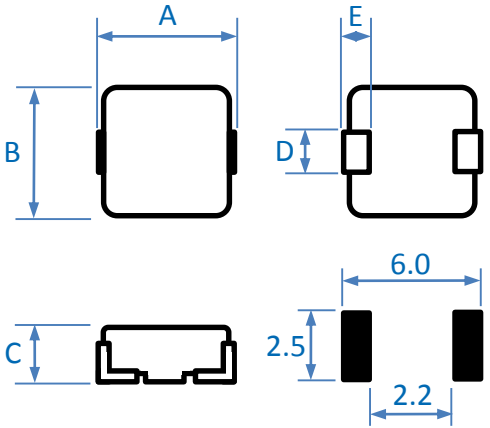

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 5.4 | ±0.3 |
| **B** | 5.2 | ±0.3 |
| **C** | 1.6 | ±0.2 |
| **D** | 2.2 | ±0.3 |
| **E** | 1.2 | ±0.2 |

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0518-R47MN1 | 0.47 | 7.6 | 8.5 | 11.0 | 16.0 |
| MCS0518-R56MN1 | 0.56 | 8.0 | 10.0 | 10.0 | 15.5 |
| MCS0518-1R0MN1 | 1.0 | 15.0 | 18.0 | 8.5 | 10.0 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -25°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



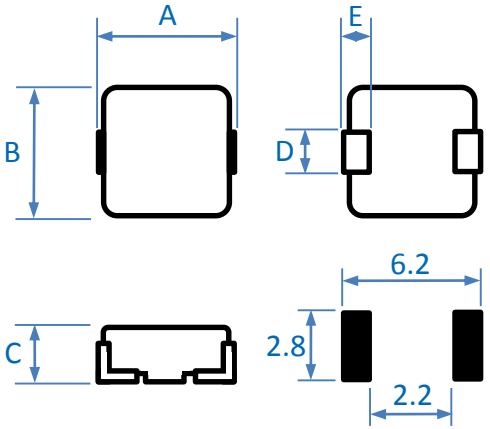

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0518-R33ME1 | 0.33 | 6.0 | 7.0 | 12.0 | 17.0 |
| MCS0518-R47ME1 | 0.47 | 7.7 | 9.0 | 10.5 | 15.5 |
| MCS0518-R56ME1 | 0.56 | 8.0 | 10.0 | 9.5 | 15.0 |
| MCS0518-1R0ME1 | 1.0 | 15.0 | 17.0 | 8.0 | 9.0 |
| MCS0518-1R5ME1 | 1.5 | 21.0 | 26.0 | 7.5 | 9.0 |
| MCS0518-2R2ME1 | 2.2 | 30.0 | 35.0 | 5.0 | 6.5 |
| MCS0518-3R3ME1 | 3.3 | 52.0 | 58.0 | 4.5 | 5.0 |
| MCS0518-4R7ME1 | 4.7 | 78.0 | 85.0 | 3.5 | 4.0 |
| MCS0518-6R8ME1 | 6.8 | 107 | 120 | 2.8 | 3.4 |
| MCS0518-100ME1 | 10.0 | 140 | 155 | 2.5 | 3.0 |

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.4 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 1.6 | ±0.2 |
| D | 2.2 | ±0.3 |
| E | 1.2 | ±0.2 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

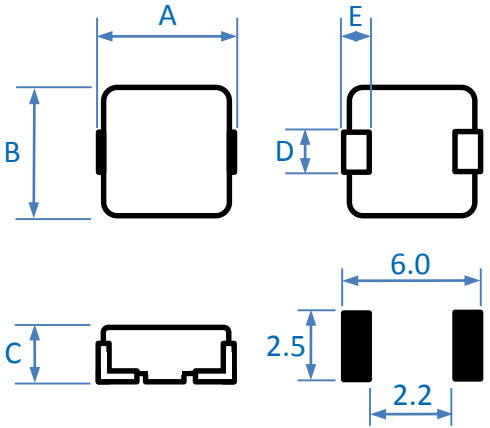
| | DIM. | TOL. |
|---|---|---|
| A | 5.7 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 1.8 | ±0.2 |
| D | 2.5 | ±0.3 |
| E | 1.1 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0520-R10NT1 | 0.10 | 3.6 | 4.0 | 18.0 | 45.0 |
| MCS0520-R15NT1 | 0.15 | 3.8 | 4.6 | 16.0 | 27.0 |
| MCS0520-R22MT1 | 0.22 | 4.0 | 5.5 | 15.0 | 25.0 |
| MCS0520-R24MT1 | 0.24 | 6.0 | 7.0 | 13.0 | 23.0 |
| MCS0520-R33MT1 | 0.33 | 6.3 | 7.3 | 12.0 | 21.3 |
| MCS0520-R47MT1 | 0.47 | 7.3 | 8.6 | 11.5 | 18.0 |
| MCS0520-R68MT1 | 0.68 | 11.0 | 12.4 | 10.0 | 12.8 |
| MCS0520-1R0MT1 | 1.0 | 17.5 | 20.0 | 7.0 | 13.7 |
| MCS0520-1R2MT1 | 1.2 | 23.0 | 28.0 | 6.2 | 11.0 |
| MCS0520-1R5MT1 | 1.5 | 26.5 | 30.5 | 5.5 | 9.8 |
| MCS0520-2R2MT1 | 2.2 | 42.0 | 50.0 | 4.2 | 9.0 |
| MCS0520-3R3MT1 | 3.3 | 66.0 | 76.0 | 3.3 | 7.3 |
| MCS0520-4R7MT1 | 4.7 | 103 | 116 | 2.8 | 5.0 |
| MCS0520-5R6MT1 | 5.6 | 112 | 122 | 2.5 | 4.0 |
| MCS0520-6R8MT1 | 6.8 | 130 | 150 | 2.4 | 3.8 |
| MCS0520-8R2MT1 | 8.2 | 148 | 171 | 2.3 | 3.5 |
| MCS0520-100MT1 | 10.0 | 180 | 199 | 2.3 | 3.4 |
| MCS0520-150MT1 | 15.0 | 240 | 270 | 1.9 | 2.8 |
| MCS0520-220MT1 | 22.0 | 350 | 390 | 1.5 | 1.8 |

Tolerance: M:±20%, N:±10%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



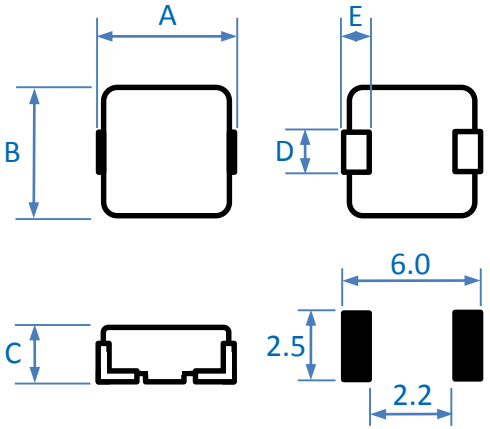

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0530-R20MN2 | 0.2 | 3.5 | 3.9 | 18.0 | 14.5 |
| MCS0530-R47MN2 | 0.47 | 7.4 | 8.5 | 13.5 | 12.0 |
| MCS0530-R68MN2 | 0.68 | 11 | 12 | 8.5 | 14.0 |
| MCS0530-1R0MN2 | 1.0 | 13 | 14 | 7.0 | 11.0 |
| MCS0530-1R2MN2 | 1.2 | 15 | 16 | 6.5 | 11.0 |
| MCS0530-1R5MN2 | 1.5 | 20 | 25 | 6.0 | 8.5 |
| MCS0530-2R2MN2 | 2.2 | 25 | 29 | 5.5 | 7.5 |
| MCS0530-3R3MN2 | 3.3 | 32 | 38 | 5.0 | 6.0 |
| MCS0530-4R7MN2 | 4.7 | 50 | 60 | 3.5 | 5.0 |
| MCS0530-6R8MN2 | 6.8 | 75 | 90 | 3.0 | 4.0 |
| MCS0530-100MN2 | 10 | 110 | 125 | 2.5 | 3.5 |

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.4 | ±0.3 |
| B | 5.2 | ±0.3 |
| C | 3.0 | Max |
| D | 2.2 | ±0.3 |
| E | 1.2 | ±0.2 |

(1) Test Freq: 100kHz, 0.5V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



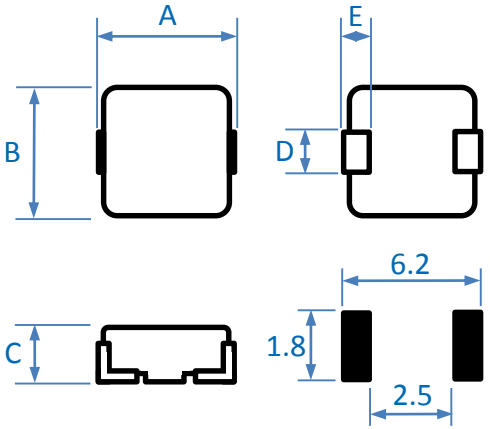

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.4 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 2.8 | ±0.2 |
| D | 2.2 | ±0.3 |
| E | 1.2 | ±0.2 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0530-R10ME1 | 0.10 | 2.4 | 3.0 | 25.0 | 33.0 |
| MCS0530-R20ME1 | 0.20 | 3.5 | 3.9 | 14.0 | 14.5 |
| MCS0530-R33ME1 | 0.33 | 4.5 | 5.5 | 14.0 | 18.0 |
| MCS0530-R35ME1 | 0.35 | 4.5 | 5.5 | 14.0 | 18.0 |
| MCS0530-R47ME1 | 0.47 | 7.4 | 8.5 | 11.0 | 12.0 |
| MCS0530-R68ME1 | 0.68 | 11.0 | 12.0 | 9.0 | 11.5 |
| MCS0530-1R0ME1 | 1.0 | 13.0 | 14.0 | 8.5 | 11.0 |
| MCS0530-1R2ME1 | 1.2 | 15.0 | 16.0 | 8.5 | 11.0 |
| MCS0530-1R5ME1 | 1.5 | 20.0 | 25.0 | 8.2 | 8.5 |
| MCS0530-2R2ME1 | 2.2 | 25.0 | 29.0 | 7.0 | 7.5 |
| MCS0530-3R3ME1 | 3.3 | 32.0 | 38.0 | 5.5 | 6.0 |
| MCS0530-4R7ME1 | 4.7 | 50.0 | 60.0 | 4.5 | 5.0 |
| MCS0530-6R8ME1 | 6.8 | 75.0 | 90.0 | 3.5 | 4.0 |
| MCS0530-100ME1 | 10.0 | 110 | 125 | 3.2 | 3.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 5.7 | ±0.3 |
| B | 5.2 | ±0.2 |
| C | 2.8 | ±0.2 |
| D | 1.5 | ±0.2 |
| E | 1.1 | ±0.3 |

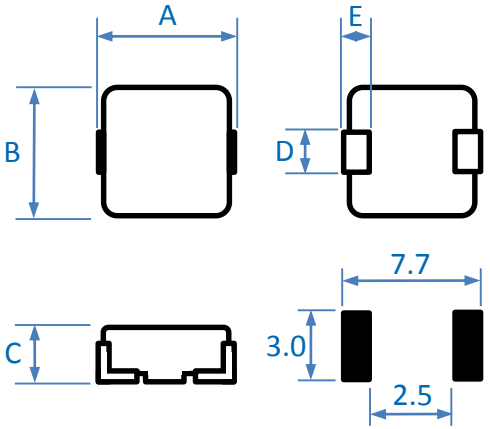
| PART NO. | Inductance (μH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0530-R10NT1 | 0.10 | 2.5 | 3.0 | 23.0 | 27.0 |
| MCS0530-R20□T1 | 0.20 | 2.6 | 3.2 | 16.0 | 25.0 |
| MCS0530-R22MT1 | 0.22 | 3.7 | 4.4 | 15.5 | 21.0 |
| MCS0530-R33MT1 | 0.33 | 4.3 | 5.0 | 14.0 | 18.0 |
| MCS0530-R47MT1 | 0.47 | 6.4 | 7.4 | 12.0 | 16.0 |
| MCS0530-R56MT1 | 0.56 | 8.0 | 10 | 10.0 | 15.0 |
| MCS0530-R68MT1 | 0.68 | 10 | 12 | 8.5 | 14.0 |
| MCS0530-1R0MT1 | 1.0 | 13 | 14 | 7.0 | 11.0 |
| MCS0530-1R2MT1 | 1.2 | 14 | 16 | 6.5 | 11.0 |
| MCS0530-1R5MT1 | 1.5 | 16 | 25 | 6.0 | 10.0 |
| MCS0530-2R2MT1 | 2.2 | 25 | 35 | 5.5 | 9.0 |
| MCS0530-3R3MT1 | 3.3 | 32 | 38 | 5.0 | 8.0 |
| MCS0530-4R7MT1 | 4.7 | 50 | 53 | 4.6 | 6.0 |
| MCS0530-5R6MT1 | 5.6 | 55 | 62 | 4.25 | 4.5 |
| MCS0530-6R8MT1 | 6.8 | 68 | 76.2 | 4.0 | 4.3 |
| MCS0530-100MT1 | 10.0 | 110 | 128 | 2.75 | 3.5 |
| MCS0530-150MT1 | 15.0 | 165 | 190 | 2.1 | 2.6 |
| MCS0530-180MT1 | 18.0 | 195 | 230 | 2.0 | 2.3 |
| MCS0530-220MT1 | 22.0 | 220 | 250 | 1.9 | 1.7 |
| MCS0530-330MT1 | 33.0 | 380 | 440 | 1.6 | 1.6 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes




Unit: mm

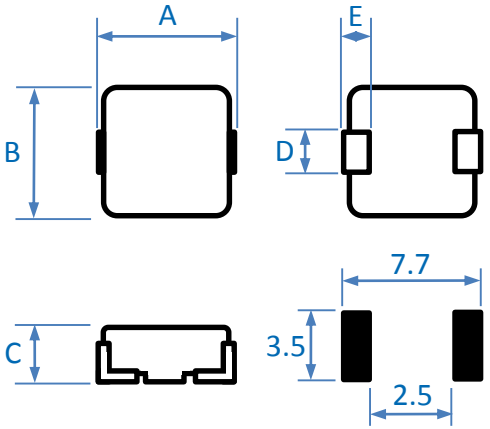
| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 1.0 | ±0.2 |
| D | 2.5 | ±0.3 |
| E | 1.8 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0612-R15NT1 | 0.15 | 4.9 | 5.7 | 14.0 | 24.0 |
| MCS0612-R22NT1 | 0.22 | 6.5 | 7.5 | 11.0 | 19.0 |
| MCS0612-R33MT1 | 0.33 | 9.0 | 10.0 | 9.5 | 16.0 |
| MCS0612-R47MT1 | 0.47 | 13.0 | 17.0 | 8.5 | 12.0 |
| MCS0612-R68MT1 | 0.68 | 17.0 | 19.0 | 7.0 | 9.0 |
| MCS0612-1R0MT1 | 1.0 | 27.0 | 30.0 | 6.0 | 7.0 |
| MCS0612-1R2MT1 | 1.2 | 31.0 | 36.0 | 5.0 | 6.8 |
| MCS0612-1R5MT1 | 1.5 | 35.0 | 40.0 | 4.5 | 6.5 |
| MCS0612-2R2MT1 | 2.2 | 53.0 | 61.0 | 4.0 | 5.0 |
| MCS0612-3R3MT1 | 3.3 | 90.0 | 103 | 3.2 | 4.0 |
| MCS0612-4R7MT1 | 4.7 | 130 | 150 | 2.5 | 3.8 |
| MCS0612-6R8MT1 | 6.8 | 172 | 198 | 2.1 | 3.0 |
| MCS0612-100MT1 | 10.0 | 280 | 290 | 1.8 | 2.5 |
| MCS0612-220MT1 | 22.0 | 540 | 600 | 1.2 | 1.7 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

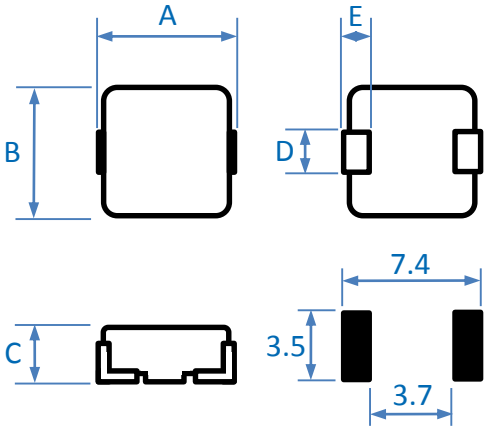
| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 1.3 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0615-R10NT1 | 0.10 | 2.5 | 3.1 | 17.5 | 35.0 |
| MCS0615-R12NT1 | 0.12 | 3.0 | 3.6 | 17.0 | 30.0 |
| MCS0615-R15NT1 | 0.15 | 3.7 | 4.5 | 16.0 | 25.0 |
| MCS0615-R20NT1 | 0.20 | 3.9 | 4.6 | 14.5 | 24.0 |
| MCS0615-R22NT1 | 0.22 | 4.3 | 5.2 | 14.0 | 22.0 |
| MCS0615-R33MT1 | 0.33 | 6.6 | 7.6 | 11.0 | 18.0 |
| MCS0615-R47MT1 | 0.47 | 9.0 | 10.3 | 9.5 | 16.0 |
| MCS0615-R56MT1 | 0.56 | 12.5 | 14.0 | 9.0 | 15.5 |
| MCS0615-R68MT1 | 0.68 | 13.8 | 15.2 | 7.5 | 15.0 |
| MCS0615-R82MT1 | 0.82 | 20.0 | 24.0 | 7.0 | 14.0 |
| MCS0615-1R0MT1 | 1.0 | 23.0 | 25.8 | 6.5 | 12.0 |
| MCS0615-1R2MT1 | 1.2 | 29.0 | 34.0 | 5.6 | 10.5 |
| MCS0615-1R5MT1 | 1.5 | 37.0 | 42.5 | 5.0 | 9.5 |
| MCS0615-2R2MT1 | 2.2 | 48.0 | 55.0 | 4.5 | 6.5 |
| MCS0615-3R3MT1 | 3.3 | 62.0 | 74.0 | 4.2 | 6.0 |
| MCS0615-4R7MT1 | 4.7 | 96.0 | 111 | 3.8 | 5.0 |
| MCS0615-5R6MT1 | 5.6 | 115 | 138 | 3.0 | 4.5 |
| MCS0615-6R8MT1 | 6.8 | 128 | 148 | 2.6 | 3.5 |
| MCS0615-8R2MT1 | 8.2 | 153 | 184 | 2.4 | 3.2 |
| MCS0615-100MT1 | 10.0 | 180 | 216 | 2.3 | 2.8 |
| MCS0615-220MT1 | 22.0 | 420 | 504 | 1.5 | 2.5 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*



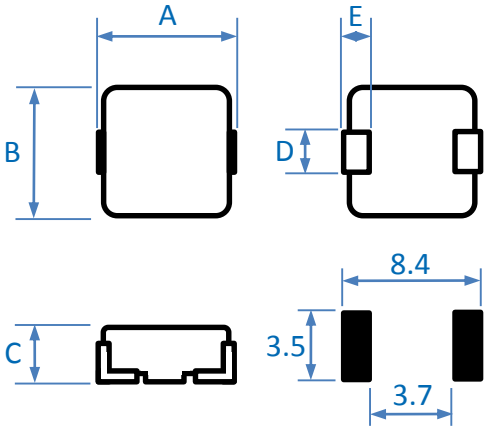

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.1 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 1.8 | Max |
| D | 3.0 | ±0.3 |
| E | 1.6 | ±0.5 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0618-R10MN1 | 0.10 | 3.0 | 3.5 | 18 | 40 |
| MCS0618-R15MN1 | 0.15 | 4.7 | 5.2 | 15 | 38 |
| MCS0618-R22MN1 | 0.22 | 5.3 | 5.7 | 14 | 26 |
| MCS0618-R33MN1 | 0.33 | 6.6 | 7.0 | 12 | 18 |
| MCS0618-R47MN1 | 0.47 | 8.4 | 9.3 | 11 | 18 |
| MCS0618-R68MN1 | 0.68 | 12.7 | 13.9 | 9 | 17 |
| MCS0618-R82MN1 | 0.82 | 13.8 | 15.9 | 8 | 17 |
| MCS0618-1R0MN1 | 1.0 | 17.5 | 18.3 | 7 | 14 |
| MCS0618-1R5MN1 | 1.5 | 32.6 | 34.0 | 4 | 11.5 |
| MCS0618-2R2MN1 | 2.2 | 40.3 | 46.0 | 3.75 | 11 |
| MCS0618-2R5MN1 | 2.5 | 49.9 | 52.4 | 3.50 | 10.4 |
| MCS0618-3R3MN1 | 3.3 | 56.2 | 60.1 | 3.25 | 10 |
| MCS0618-4R7MN1 | 4.7 | 76.6 | 78.0 | 3.0 | 8 |
| MCS0618-6R8MN1 | 6.8 | 101 | 110 | 2.8 | 3.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



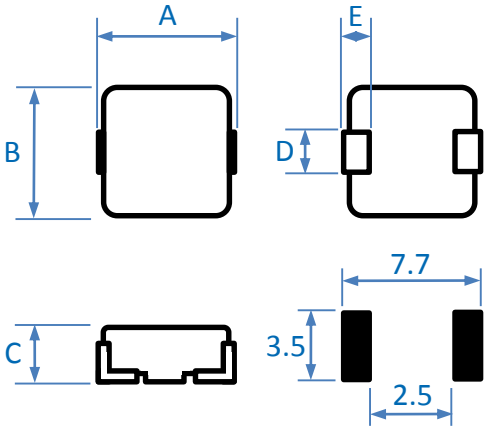

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0618-R10ME1 | 0.1 | 2.0 | 2.3 | 25.0 | 38.0 |
| MCS0618-R22ME1 | 0.22 | 3.0 | 3.5 | 22.0 | 24.0 |
| MCS0618-R47ME1 | 0.47 | 8.0 | 8.4 | 11.5 | 18.0 |
| MCS0618-R68ME1 | 0.68 | 10.0 | 12.0 | 9.5 | 17.0 |
| MCS0618-1R0ME1 | 1.0 | 13.0 | 16.0 | 8.5 | 14.0 |
| MCS0618-1R5ME1 | 1.5 | 20.0 | 26.0 | 8.0 | 9.2 |
| MCS0618-2R2ME1 | 2.2 | 28.0 | 35.0 | 7.0 | 8.0 |
| MCS0618-3R3ME1 | 3.3 | 43.0 | 50.0 | 4.5 | 6.5 |
| MCS0618-4R7ME1 | 4.7 | 56.0 | 62.0 | 4.0 | 5.0 |
| MCS0618-6R8ME1 | 6.8 | 101.0 | 110.0 | 3.0 | 4.5 |
| MCS0618-100ME1 | 10.0 | 140.0 | 155.0 | 2.3 | 2.5 |
| MCS0618-220ME1 | 22.0 | 310.0 | 350.0 | 1.8 | 2.3 |

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.2 |
| C | 1.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.6 | ±0.3 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



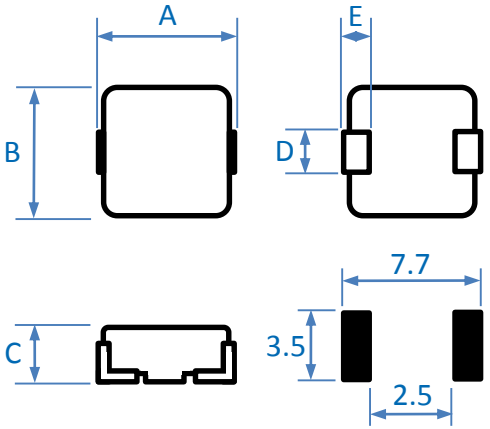

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 1.6 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0618-R10MT1 | 0.10 | 2.1 | 2.5 | 18.0 | 45.0 |
| MCS0618-R22MT1 | 0.22 | 2.5 | 3.0 | 16.0 | 26.0 |
| MCS0618-R33MT1 | 0.33 | 4.8 | 5.8 | 14.0 | 22.0 |
| MCS0618-R47MT1 | 0.47 | 6.4 | 7.4 | 12.0 | 18.0 |
| MCS0618-R68MT1 | 0.68 | 9.5 | 11.0 | 10.0 | 17.0 |
| MCS0618-R82MT1 | 0.82 | 11.5 | 14.0 | 8.5 | 15.5 |
| MCS0618-1R0MT1 | 1.0 | 14.5 | 17.0 | 7.0 | 14.0 |
| MCS0618-1R2MT1 | 1.2 | 20.0 | 24.0 | 6.5 | 13.5 |
| MCS0618-1R5MT1 | 1.5 | 21.0 | 25.2 | 6.0 | 13.0 |
| MCS0618-2R2MT1 | 2.2 | 31.0 | 35.0 | 6.0 | 11.0 |
| MCS0618-3R3MT1 | 3.3 | 40.0 | 46.0 | 5.0 | 9.0 |
| MCS0618-4R7MT1 | 4.7 | 68.0 | 76.0 | 4.0 | 7.0 |
| MCS0618-5R6MT1 | 5.6 | 78.0 | 86.0 | 3.5 | 6.0 |
| MCS0618-6R8MT1 | 6.8 | 93.0 | 104 | 3.0 | 5.5 |
| MCS0618-8R2MT1 | 8.2 | 123 | 140 | 2.6 | 4.5 |
| MCS0618-100MT1 | 10.0 | 143 | 160 | 2.3 | 3.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 1.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

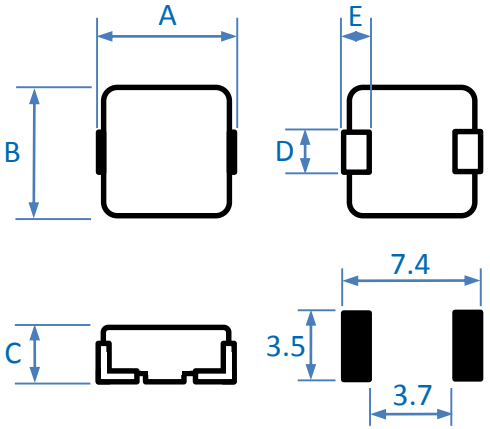
| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0620-R10NT1 | 0.10 | 2.0 | 2.4 | 21.0 | 40.0 |
| MCS0620-R15NT1 | 0.15 | 2.3 | 2.7 | 18.0 | 39.0 |
| MCS0620-R16NT1 | 0.16 | 2.3 | 2.7 | 18.0 | 38.0 |
| MCS0620-R18NT1 | 0.18 | 2.4 | 2.9 | 18.0 | 36.0 |
| MCS0620-R20NT1 | 0.20 | 2.5 | 3.0 | 18.0 | 35.0 |
| MCS0620-R22NT1 | 0.22 | 3.5 | 4.0 | 15.0 | 32.0 |
| MCS0620-R24MT1 | 0.24 | 3.6 | 4.3 | 14.5 | 32.0 |
| MCS0620-R33MT1 | 0.33 | 4.5 | 5.0 | 14.0 | 25.0 |
| MCS0620-R47MT1 | 0.47 | 7.1 | 8.3 | 11.7 | 20.0 |
| MCS0620-R56MT1 | 0.56 | 7.9 | 9.3 | 11.0 | 18.0 |
| MCS0620-R68MT1 | 0.68 | 8.3 | 10.0 | 10.5 | 16.0 |
| MCS0620-1R0MT1 | 1.0 | 16.5 | 18.0 | 8.0 | 14.0 |
| MCS0620-1R2MT1 | 1.2 | 19.0 | 23.0 | 7.5 | 13.0 |
| MCS0620-1R5MT1 | 1.5 | 23.0 | 27.0 | 7.0 | 12.0 |
| MCS0620-2R2MT1 | 2.2 | 32.0 | 37.0 | 6.0 | 10.0 |
| MCS0620-3R3MT1 | 3.3 | 43.0 | 48.0 | 5.0 | 8.0 |
| MCS0620-4R7MT1 | 4.7 | 53.0 | 60.0 | 4.5 | 7.0 |
| MCS0620-5R6MT1 | 5.6 | 59.0 | 68.0 | 4.0 | 6.0 |
| MCS0620-6R8MT1 | 6.8 | 63.0 | 73.0 | 4.0 | 5.5 |
| MCS0620-8R2MT1 | 8.2 | 101 | 116 | 3.2 | 5.0 |
| MCS0620-100MT1 | 10.0 | 134 | 154 | 2.8 | 4.0 |
| MCS0620-150MT1 | 15.0 | 190 | 210 | 2.1 | 3.3 |
| MCS0620-220MT1 | 22.0 | 236 | 280 | 1.5 | 2.5 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes



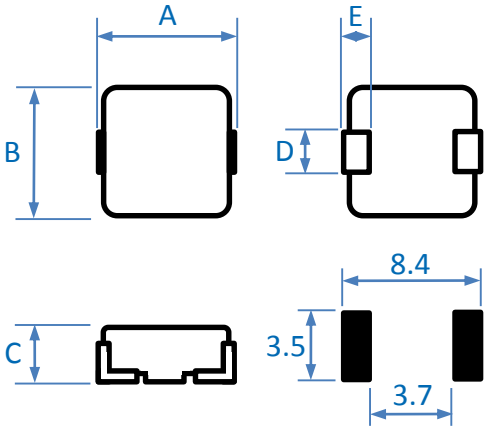

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 7.3 | Max |
| **B** | 6.6 | ±0.3 |
| **C** | 2.4 | Max |
| **D** | 3.0 | ±0.3 |
| **E** | 1.6 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0624-R10MN1 | 0.10 | 1.5 | 1.7 | 30.0 | 50.0 |
| MCS0624-R22MN1 | 0.22 | 2.9 | 3.2 | 21.0 | 34.0 |
| MCS0624-R33MN1 | 0.33 | 3.7 | 4.1 | 18.0 | 22.0 |
| MCS0624-R47MN1 | 0.47 | 6.0 | 6.5 | 13.5 | 21.0 |
| MCS0624-R68MN1 | 0.68 | 8.7 | 9.4 | 11.0 | 18.0 |
| MCS0624-R82MN1 | 0.82 | 10.6 | 11.8 | 10.0 | 17.0 |
| MCS0624-1R0MN1 | 1.0 | 13.0 | 14.2 | 9.0 | 16.0 |
| MCS0624-1R5MN1 | 1.5 | 18.5 | 21.2 | 7.5 | 15.0 |
| MCS0624-2R2MN1 | 2.2 | 28.0 | 34.0 | 6.5 | 14.0 |
| MCS0624-3R3MN1 | 3.3 | 36.5 | 51.6 | 5.0 | 13.0 |
| MCS0624-4R7MN1 | 4.7 | 45.0 | 63.0 | 4.5 | 9.0 |
| MCS0624-5R6MN1 | 5.6 | 66.0 | 73.0 | 4.0 | 8.0 |
| MCS0624-6R8MN1 | 6.8 | 72.5 | 95.0 | 3.6 | 7.0 |
| MCS0624-8R2MN1 | 8.2 | 84.0 | 106 | 3.0 | 8.0 |
| MCS0624-100MN2 | 10 | 116 | 129 | 2.5 | 6.0 |

(1) Test Freq: 100kHz, 0.5V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



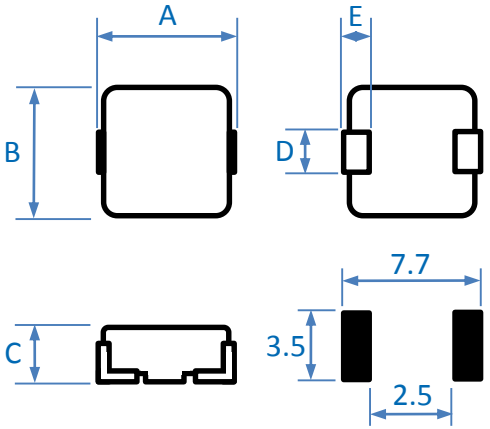

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.2 |
| C | 2.2 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.6 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0624-R22ME1 | 0.22 | 2.5 | 3.0 | 21.0 | 34.0 |
| MCS0624-R33ME1 | 0.33 | 3.5 | 4.1 | 18.0 | 24.5 |
| MCS0624-R47ME1 | 0.47 | 4.5 | 5.1 | 15.0 | 22.0 |
| MCS0624-R56ME1 | 0.56 | 5.5 | 6.5 | 13.0 | 17.0 |
| MCS0624-R68ME1 | 0.68 | 6.2 | 7.0 | 12.0 | 16.0 |
| MCS0624-1R0ME1 | 1.0 | 11.0 | 13.5 | 9.0 | 16.0 |
| MCS0624-1R5ME1 | 1.5 | 17.0 | 20.0 | 9.0 | 13.5 |
| MCS0624-2R2ME1 | 2.2 | 23.0 | 28.0 | 7.0 | 11.0 |
| MCS0624-3R3ME1 | 3.3 | 31.0 | 39.0 | 5.5 | 8.5 |
| MCS0624-4R7ME1 | 4.7 | 45.0 | 54.0 | 5.0 | 7.5 |
| MCS0624-6R8ME1 | 6.8 | 57.0 | 70.0 | 4.0 | 6.0 |
| MCS0624-100ME1 | 10.0 | 92.0 | 101 | 3.1 | 4.0 |
| MCS0624-150ME1 | 15.0 | 145 | 160 | 2.5 | 3.3 |
| MCS0624-220ME1 | 22.0 | 220 | 230 | 2.0 | 2.5 |

(1) Test Freq: 100kHz, 1V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.3 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 2.2 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

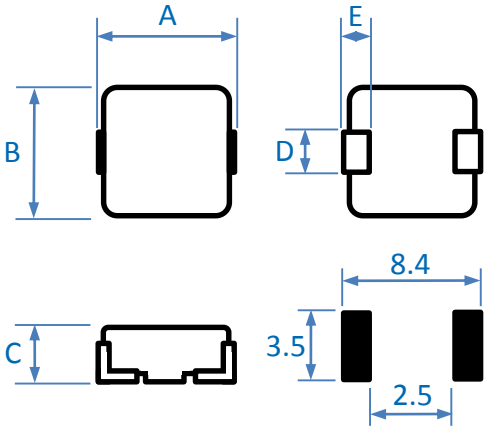
| PART NO. | Inductance (μH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0624-R10NT1 | 0.10 | 1.4 | 1.7 | 30.0 | 70.0 |
| MCS0624-R15NT1 | 0.15 | 1.8 | 2.3 | 30.0 | 45.0 |
| MCS0624-R20MT1 | 0.20 | 1.9 | 2.8 | 23.0 | 40.0 |
| MCS0624-R22MT1 | 0.22 | 2.0 | 3.2 | 21.0 | 34.0 |
| MCS0624-R33MT1 | 0.33 | 3.6 | 4.4 | 18.0 | 30.0 |
| MCS0624-R36MT1 | 0.36 | 3.8 | 4.6 | 17.0 | 29.0 |
| MCS0624-R47MT1 | 0.47 | 4.8 | 5.1 | 15.0 | 26.0 |
| MCS0624-R56MT1 | 0.56 | 5.5 | 6.5 | 13.0 | 24.0 |
| MCS0624-R60MT1 | 0.60 | 5.7 | 6.9 | 13.0 | 22.0 |
| MCS0624-R68MT1 | 0.68 | 6.4 | 7.2 | 13.0 | 21.0 |
| MCS0624-R82MT1 | 0.82 | 8.0 | 9.5 | 11.0 | 17.0 |
| MCS0624-1R0MT1 | 1.0 | 10.5 | 13.5 | 11.0 | 16.0 |
| MCS0624-1R5MT1 | 1.5 | 17.0 | 20.0 | 9.0 | 15.0 |
| MCS0624-2R2MT1 | 2.2 | 23.0 | 28.0 | 7.0 | 14.0 |
| MCS0624-3R3MT1 | 3.3 | 34.0 | 39.0 | 6.0 | 10.0 |
| MCS0624-4R7MT1 | 4.7 | 41.0 | 50.0 | 5.5 | 9.0 |
| MCS0624-5R6MT1 | 5.6 | 56.0 | 62.0 | 5.0 | 8.0 |
| MCS0624-6R8MT1 | 6.8 | 65.0 | 72.0 | 4.0 | 7.0 |
| MCS0624-8R2MT1 | 8.2 | 81.0 | 95.0 | 3.6 | 6.0 |
| MCS0624-100MT1 | 10.0 | 82.0 | 101 | 3.2 | 5.0 |
| MCS0624-150MT1 | 15.0 | 150 | 180 | 2.5 | 3.5 |
| MCS0624-220MT1 | 22.0 | 185 | 215 | 1.8 | 3.0 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.3 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 2.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

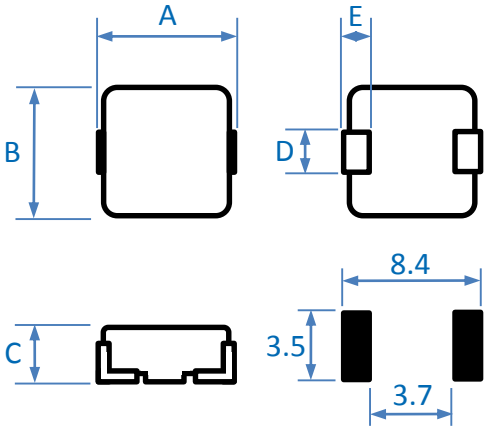
| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0630-R30MT1 | 0.30 | 3.2 | 3.8 | 21.0 | 35.0 |
| MCS0630-R33MT1 | 0.33 | 3.5 | 3.9 | 20.0 | 32.0 |
| MCS0630-R36MT1 | 0.36 | 3.6 | 4.2 | 19.0 | 32.0 |
| MCS0630-R47MT1 | 0.47 | 4.0 | 4.2 | 17.5 | 26.0 |
| MCS0630-R56MT1 | 0.56 | 4.7 | 5.0 | 16.5 | 25.5 |
| MCS0630-R60MT1 | 0.60 | 4.7 | 5.2 | 16.0 | 25.5 |
| MCS0630-R68MT1 | 0.68 | 4.8 | 5.5 | 15.5 | 25.0 |
| MCS0630-R75MT1 | 0.75 | 5.5 | 6.6 | 14.5 | 24.5 |
| MCS0630-R82MT1 | 0.82 | 6.7 | 8.0 | 13.0 | 24.0 |
| MCS0630-1R0MT1 | 1.0 | 8.3 | 10 | 11.0 | 22.0 |
| MCS0630-1R2MT1 | 1.2 | 10 | 12 | 10.0 | 20.0 |
| MCS0630-1R5MT1 | 1.5 | 13 | 15 | 9.0 | 18.0 |
| MCS0630-1R8MT1 | 1.8 | 14 | 17 | 8.5 | 16.0 |
| MCS0630-2R0MT1 | 2.0 | 16 | 19 | 8.2 | 15.0 |
| MCS0630-2R2MT1 | 2.2 | 18 | 20 | 8.0 | 15.0 |
| MCS0630-2R5MT1 | 2.5 | 20 | 22 | 7.0 | 13.0 |
| MCS0630-3R3MT1 | 3.3 | 28 | 30 | 6.0 | 13.5 |
| MCS0630-4R7MT1 | 4.7 | 37 | 40 | 5.5 | 10.0 |
| MCS0630-5R6MT1 | 5.6 | 43 | 48 | 5.0 | 9.0 |
| MCS0630-6R8MT1 | 6.8 | 54 | 60 | 4.5 | 8.0 |
| MCS0630-8R2MT1 | 8.2 | 64 | 68 | 4.0 | 7.5 |
| MCS0630-100MT1 | 10.0 | 75 | 85 | 3.5 | 6.0 |
| MCS0630-120MT1 | 12.0 | 81 | 93 | 3.3 | 5.5 |
| MCS0630-220MT1 | 22.0 | 165 | 190 | 2.0 | 3.5 |
| MCS0630-330MT1 | 33.0 | 200 | 240 | 2.0 | 2.5 |
| MCS0630-470MT1 | 47.0 | 302 | 363 | 1.75 | 2.0 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K

(5) Isat: DC current (A) that will cause L0 to drop approximately 30% (6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes



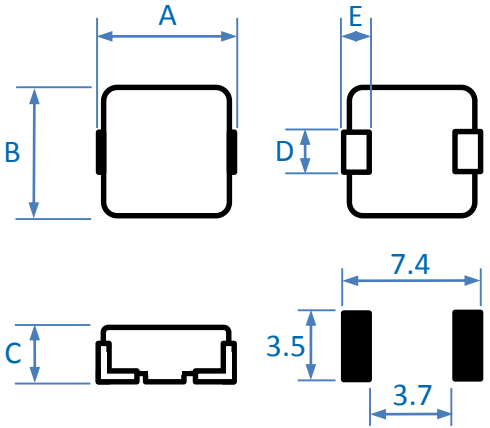

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 7.0 | ±0.3 |
| B | 6.6 | ±0.2 |
| C | 2.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.6 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0630-R10ME1 | 0.1 | 0.9 | 1.2 | 32.0 | 56.0 |
| MCS0630-R22ME1 | 0.22 | 2.5 | 3.0 | 24.0 | 34.0 |
| MCS0630-R24ME1 | 0.24 | 2.6 | 3.1 | 23.0 | 26.0 |
| MCS0630-R33ME1 | 0.33 | 3.0 | 3.5 | 21.0 | 25.0 |
| MCS0630-R47ME1 | 0.47 | 3.5 | 4.1 | 18.0 | 20.0 |
| MCS0630-R56ME1 | 0.56 | 3.9 | 4.5 | 16.5 | 18.0 |
| MCS0630-R68ME1 | 0.68 | 4.8 | 5.3 | 16.0 | 17.0 |
| MCS0630-R82ME1 | 0.82 | 5.4 | 6.0 | 14.0 | 16.0 |
| MCS0630-1R0ME1 | 1.0 | 6.7 | 7.4 | 12.0 | 15.0 |
| MCS0630-1R5ME1 | 1.5 | 10.6 | 12.1 | 12.0 | 14.0 |
| MCS0630-2R2ME1 | 2.2 | 13.5 | 15.0 | 9.5 | 10.0 |
| MCS0630-3R3ME1 | 3.3 | 18.0 | 22.0 | 8.5 | 9.5 |
| MCS0630-4R7ME1 | 4.7 | 28.0 | 33.0 | 6.0 | 6.5 |
| MCS0630-5R6ME1 | 5.6 | 37.0 | 42.0 | 5.0 | 6.0 |
| MCS0630-6R8ME1 | 6.8 | 42.5 | 48.0 | 5.0 | 6.0 |
| MCS0630-8R2ME1 | 8.2 | 54.0 | 60.0 | 5.0 | 6.0 |
| MCS0630-100ME1 | 10.0 | 62.0 | 67.0 | 4.5 | 5.5 |
| MCS0630-150ME1 | 15.0 | 104 | 115 | 3.0 | 4.5 |
| MCS0630-220ME1 | 22.0 | 180 | 200 | 2.3 | 3.0 |
| MCS0630-330ME1 | 33.0 | 280 | 310 | 2.0 | 2.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



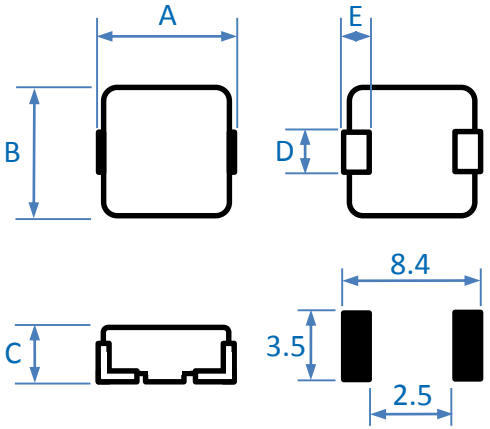

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 7.3 | Max. |
| **B** | 6.6 | ±0.2 |
| **C** | 3.0 | Max. |
| **D** | 3.0 | ±0.3 |
| **E** | 1.6 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0630-R22MN2 | 0.22 | 2.5 | 2.8 | 23.0 | 40.0 |
| MCS0630-R33MN2 | 0.33 | 3.5 | 3.9 | 20.0 | 30.0 |
| MCS0630-R47MN2 | 0.47 | 4.0 | 4.2 | 17.5 | 26.0 |
| MCS0630-R56MN2 | 0.56 | 4.7 | 5.0 | 16.5 | 25.5 |
| MCS0630-R68MN2 | 0.68 | 5.0 | 5.5 | 15.5 | 25.0 |
| MCS0630-R82MN2 | 0.82 | 6.7 | 8.0 | 13.0 | 20.0 |
| MCS0630-1R0MN2 | 1.0 | 9.0 | 10.0 | 11.0 | 20.0 |
| MCS0630-1R5MN2 | 1.5 | 14.0 | 15.0 | 9.0 | 16.0 |
| MCS0630-2R2MN2 | 2.2 | 17.0 | 20.0 | 8.0 | 12.0 |
| MCS0630-3R3MN2 | 3.3 | 28.0 | 30.0 | 6.0 | 10.0 |
| MCS0630-4R7MN2 | 4.7 | 37.0 | 40.0 | 5.5 | 7.0 |
| MCS0630-5R6MN2 | 5.6 | 40.0 | 44.0 | 5.5 | 6.0 |
| MCS0630-6R8MN2 | 6.8 | 54.0 | 60.0 | 4.5 | 6.5 |
| MCS0630-8R2MN1 | 8.2 | 54.0 | 60.0 | 4.5 | 6.0 |
| MCS0630-100MN1 | 10.0 | 62.0 | 68.0 | 4.0 | 5.5 |
| MCS0630-150MN1 | 15.0 | 110 | 125 | 3.0 | 3.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -25°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

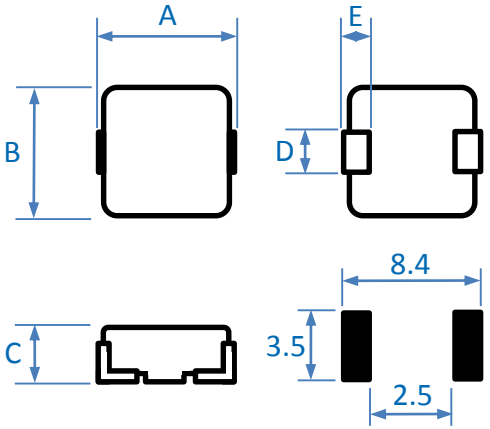
| | DIM. | TOL. |
|---|---|---|
| A | 7.3 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 3.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0640-R12NT1 | 0.12 | 0.7 | 1.0 | 32.0 | 64.0 |
| MCS0640-R15NT1 | 0.15 | 0.9 | 1.2 | 30.0 | 55.0 |
| MCS0640-R47MT1 | 0.47 | 3.0 | 3.4 | 23.0 | 28.0 |
| MCS0640-R56MT1 | 0.56 | 3.8 | 4.3 | 20.0 | 26.0 |
| MCS0640-R68MT1 | 0.68 | 4.1 | 4.5 | 16.0 | 24.0 |
| MCS0640-1R5MT1 | 1.5 | 10.0 | 12.0 | 12.0 | 20.0 |
| MCS0640-2R2MT1 | 2.2 | 11.5 | 14.0 | 9.0 | 14.0 |
| MCS0640-4R7MT1 | 4.7 | 28.0 | 32.5 | 6.0 | 11.0 |
| MCS0640-6R8MT1 | 6.8 | 44.0 | 50.0 | 4.5 | 8.5 |
| MCS0640-8R2MT1 | 8.2 | 55.0 | 64.0 | 4.5 | 8.0 |
| MCS0640-100MT1 | 10.0 | 64.0 | 72.0 | 4.0 | 7.0 |
| MCS0640-150MT1 | 15.0 | 80.0 | 90.0 | 3.0 | 4.0 |
| MCS0640-220MT1 | 22.0 | 120 | 145 | 2.5 | 3.5 |
| MCS0640-330MT1 | 33.0 | 180 | 210 | 2.0 | 3.2 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

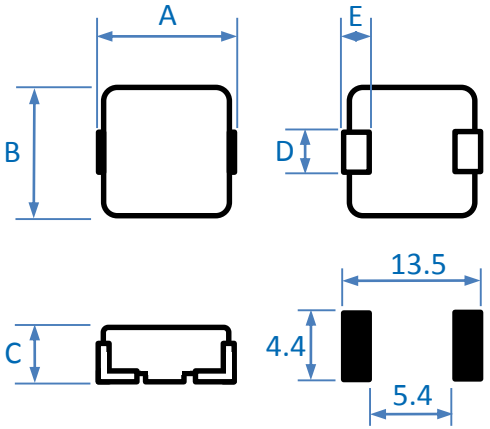
| | DIM. | TOL. |
|---|---|---|
| A | 7.3 | ±0.3 |
| B | 6.6 | ±0.3 |
| C | 4.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 1.8 | ±0.3 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS0650-R33MT1 | 0.33 | 2.5 | 3.0 | 25.0 | 32.0 |
| MCS0650-R40MT1 | 0.40 | 3.1 | 3.7 | 23.0 | 31.0 |
| MCS0650-R47MT1 | 0.47 | 3.5 | 3.9 | 22.0 | 30.0 |
| MCS0650-R56MT1 | 0.56 | 3.6 | 4.2 | 20.0 | 27.0 |
| MCS0650-R60MT1 | 0.60 | 3.8 | 4.3 | 19.0 | 25.0 |
| MCS0650-R68MT1 | 0.68 | 4.0 | 4.5 | 18.0 | 24.0 |
| MCS0650-R82MT1 | 0.82 | 4.6 | 4.9 | 15.0 | 22.0 |
| MCS0650-1R0MT1 | 1.0 | 6.1 | 6.5 | 15.0 | 20.0 |
| MCS0650-1R2MT1 | 1.2 | 6.7 | 7.5 | 14.0 | 18.0 |
| MCS0650-1R5MT1 | 1.5 | 8.6 | 9.0 | 12.0 | 16.5 |
| MCS0650-1R8MT1 | 1.8 | 9.5 | 11.0 | 12.0 | 15.0 |
| MCS0650-2R2MT1 | 2.2 | 11.2 | 12.0 | 10.0 | 14.0 |
| MCS0650-3R3MT1 | 3.3 | 19.0 | 20.9 | 8.0 | 12.0 |
| MCS0650-4R7MT1 | 4.7 | 28.0 | 30.8 | 6.5 | 10.0 |
| MCS0650-5R6MT1 | 5.6 | 43.5 | 49.0 | 6.0 | 9.0 |
| MCS0650-6R8MT1 | 6.8 | 46.0 | 51.5 | 5.5 | 8.5 |
| MCS0650-8R2MT1 | 8.2 | 56.0 | 63.0 | 5.0 | 8.0 |
| MCS0650-100MT1 | 10.0 | 60.0 | 69.0 | 4.0 | 7.5 |
| MCS0650-150MT1 | 15.0 | 81.0 | 92.0 | 3.5 | 6.0 |
| MCS0650-220MT1 | 22.0 | 140 | 170 | 2.5 | 5.5 |
| MCS0650-330MT1 | 33.0 | 173 | 200 | 2.0 | 3.5 |
| MCS0650-470MT1 | 47.0 | 290 | 330 | 1.9 | 2.7 |
| MCS0650-560MT1 | 56.0 | 342 | 396 | 1.6 | 2.1 |
| MCS0650-680MT1 | 68.0 | 386 | 445 | 1.2 | 2.0 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*

# High Current Molding Power Chokes



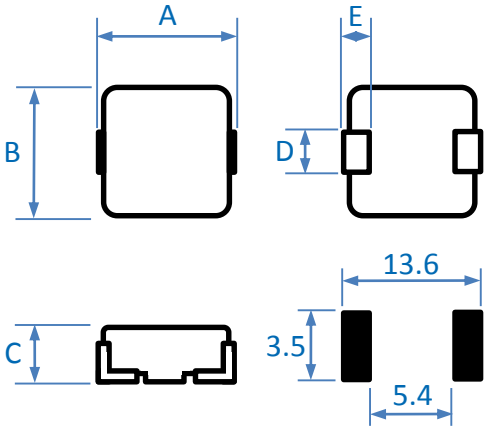

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 11.15 | ±0.35 |
| **B** | 10.0 | ±0.3 |
| **C** | 4.0 | Max. |
| **D** | 3.0 | ±0.5 |
| **E** | 2.0 | ±0.5 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1040-R22MN1 | 0.22 | 0.80 | 1.0 | 35.0 | 50.0 |
| MCS1040-R36MN1 | 0.36 | 1.1 | 1.2 | 34.0 | 40.0 |
| MCS1040-R47MN1 | 0.47 | 1.3 | 1.55 | 25.0 | 35.0 |
| MCS1040-R56MN1 | 0.56 | 1.6 | 1.8 | 25.0 | 32.0 |
| MCS1040-R68MN1 | 0.68 | 2.4 | 2.7 | 22.0 | 30.0 |
| MCS1040-1R0MN1 | 1.0 | 3.0 | 3.3 | 18.0 | 28.0 |
| MCS1040-1R5MN1 | 1.5 | 3.8 | 4.2 | 16.0 | 21.0 |
| MCS1040-2R2MN1 | 2.2 | 6.7 | 7.0 | 12.0 | 18.0 |
| MCS1040-3R3MN1 | 3.3 | 10.8 | 11.8 | 10.0 | 16.0 |
| MCS1040-4R7MN1 | 4.7 | 17.0 | 20.0 | 8.5 | 15.0 |
| MCS1040-6R8MN1 | 6.8 | 22.5 | 25.0 | 6.5 | 9.0 |
| MCS1040-8R2MN2 | 8.2 | 26.0 | 29.0 | 7.0 | 9.0 |
| MCS1040-100MN1 | 10.0 | 27.0 | 30.0 | 7.5 | 8.5 |
| MCS1040-150MCC | 15.0 | 40.0 | 45.0 | 6.25 | 7.0 |
| MCS1040-220MCC | 22.0 | 60.0 | 66.0 | 5.0 | 5.5 |
| MCS1040-330MCC | 33.0 | 85.0 | 92.0 | 4.4 | 5.0 |
| MCS1040-470MCC | 47.0 | 130 | 145 | 3.3 | 3.5 |
| MCS1040-680MN2 | 68.0 | 190 | 200 | 3.5 | 2.6 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -25°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 11.0 | ±0.5 |
| B | 10.0 | ±0.3 |
| C | 3.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 2.3 | ±0.3 |

| PART NO. | Inductance (µH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1040-R15MT1 | 0.15 | 0.5 | 0.6 | 43.0 | 75.0 |
| MCS1040-R18NT1 | 0.18 | 0.54 | 0.8 | 38.0 | 72.0 |
| MCS1040-R20NT1 | 0.20 | 0.66 | 0.95 | 35.0 | 70.0 |
| MCS1040-R22MT1 | 0.22 | 0.8 | 1.0 | 35.0 | 60.0 |
| MCS1040-R27MT1 | 0.27 | 0.82 | 1.0 | 33.0 | 60.0 |
| MCS1040-R30MT1 | 0.30 | 0.94 | 1.1 | 32.0 | 60.0 |
| MCS1040-R33MT1 | 0.33 | 1.00 | 1.2 | 31.0 | 60.0 |
| MCS1040-R36MT1 | 0.36 | 1.05 | 1.2 | 31.0 | 60.0 |
| MCS1040-R39MT1 | 0.39 | 1.1 | 1.3 | 30.0 | 60.0 |
| MCS1040-R45MT1 | 0.45 | 1.3 | 1.5 | 29.0 | 45.0 |
| MCS1040-R47MT1 | 0.47 | 1.3 | 1.5 | 28.0 | 43.0 |
| MCS1040-R56MT1 | 0.56 | 1.6 | 1.8 | 25.0 | 40.0 |
| MCS1040-R68MT1 | 0.68 | 2.4 | 2.7 | 22.0 | 39.0 |
| MCS1040-R75MT1 | 0.75 | 2.4 | 2.7 | 22.0 | 39.0 |
| MCS1040-1R0MT1 | 1.0 | 3.0 | 3.3 | 18.0 | 36.0 |
| MCS1040-1R2MT1 | 1.2 | 3.3 | 3.8 | 17.0 | 33.0 |
| MCS1040-1R5MT1 | 1.5 | 4.0 | 4.6 | 16.0 | 33.0 |
| MCS1040-2R2MT1 | 2.2 | 6.5 | 7.0 | 12.0 | 27.0 |
| MCS1040-2R5MT1 | 2.5 | 7.9 | 8.7 | 11.5 | 23.0 |
| MCS1040-3R3MT1 | 3.3 | 10.8 | 11.8 | 11.0 | 20.0 |
| MCS1040-4R0MT1 | 4.0 | 13.0 | 15.0 | 10.2 | 18.0 |
| MCS1040-4T7MT1 | 4.7 | 15.0 | 15.5 | 10.0 | 17.0 |
| MCS1040-5R6MT1 | 5.6 | 17.0 | 19.3 | 9.0 | 14.0 |
| MCS1040-6R8MT1 | 6.8 | 17.5 | 23.3 | 8.5 | 13.5 |
| MCS1040-8R2MT1 | 8.2 | 20.0 | 22.5 | 8.0 | 12.5 |
| MCS1040-100MT1 | 10.0 | 27.0 | 30.0 | 7.5 | 12.0 |
| MCS1040-150MT1 | 15.0 | 40.0 | 45.0 | 6.25 | 10.0 |

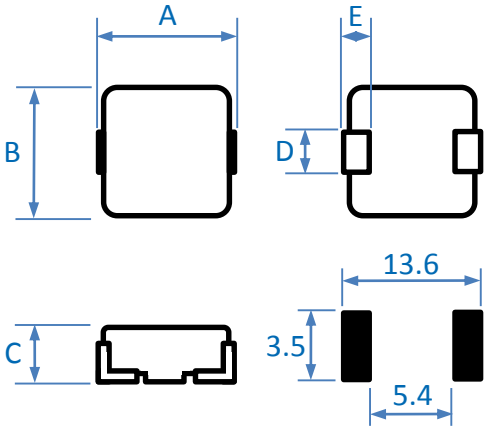
*Iron powder core for low DCR purpose (higher cost)*

| PART NO. | Inductance (μH) | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1040-220MT1 | 22.0 | 64.0 | 74.0 | 5.0 | 7.0 |
| MCS1040-270MT1 | 27.0 | 86.0 | 100 | 4.0 | 6.0 |
| MCS1040-330MT1 | 33.0 | 92.0 | 112 | 3.5 | 5.0 |
| MCS1040-470MT1 | 47.0 | 145 | 167 | 3.0 | 4.5 |
| MCS1040-680MT1 | 68.0 | 205 | 240 | 2.0 | 3.0 |
| MCS1040-820MT1 | 82.0 | 265 | 320 | 1.5 | 2.5 |

Tolerance: M:±20%, N:±30%

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



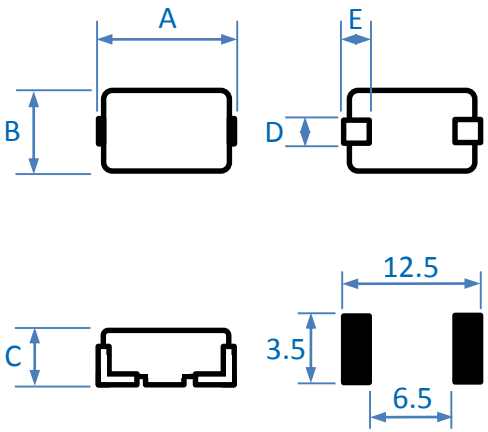

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 11.0 | ±0.5 |
| B | 10.0 | ±0.3 |
| C | 4.8 | ±0.2 |
| D | 3.0 | ±0.3 |
| E | 2.3 | ±0.3 |

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1050-R22MT1 | 0.22 | 0.45 | 0.50 | 45.0 | 70.0 |
| MCS1050-R30MT1 | 0.30 | 0.57 | 0.61 | 38.0 | 65.0 |
| MCS1050-1R0MT1 | 1.0 | 2.80 | 3.50 | 22.0 | 30.0 |
| MCS1050-1R2MT1 | 1.2 | 2.90 | 3.50 | 20.0 | 28.0 |
| MCS1050-1R3MT1 | 1.3 | 3.20 | 3.70 | 20.0 | 28.0 |
| MCS1050-1R5MT1 | 1.5 | 3.50 | 4.10 | 19.0 | 27.0 |
| MCS1050-2R2MT1 | 2.2 | 5.40 | 6.00 | 16.00 | 24.0 |
| MCS1050-3R3MT1 | 3.3 | 9.00 | 10.4 | 14.0 | 22.0 |
| MCS1050-8R2MT1 | 8.2 | 18.5 | 24.0 | 9.0 | 14.5 |
| MCS1050-100MT1 | 10.0 | 25.0 | 29.0 | 8.0 | 13.5 |
| MCS1050-150MT1 | 15.0 | 37.0 | 45.0 | 5.5 | 9.5 |
| MCS1050-220MT1 | 22.0 | 50.0 | 60.0 | 5.0 | 9.0 |
| MCS1050-240MT1 | 24.0 | 59.0 | 70.8 | 4.6 | 7.7 |
| MCS1050-330MT1 | 33.0 | 80.0 | 92.0 | 4.3 | 7.5 |
| MCS1050-470MT1 | 47.0 | 125 | 145 | 3.8 | 6.5 |
| MCS1050-680MT1 | 68.0 | 176 | 205 | 2.5 | 4.0 |
| MCS1050-101MT1 | 100.0 | 315 | 380 | 2.0 | 3.0 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -40°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

*Iron powder core for low DCR purpose (higher cost)*



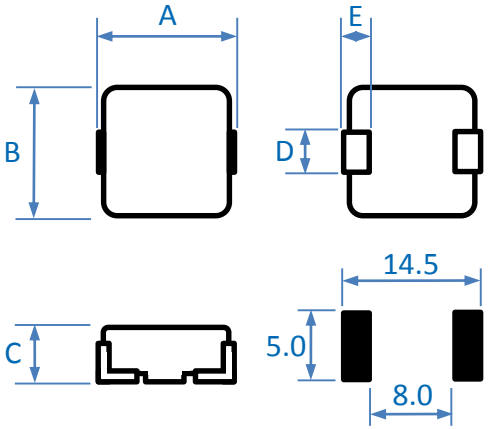

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1070-R30MN1 | 0.3 | 0.78 | 0.86 | 36.0 | 55.0 |
| MCS1070-R33MN1 | 0.33 | 0.82 | ±10% | 36.0 | 40.0 |

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| **A** | 11.2 | ±0.3 |
| **B** | 7.0 | ±0.2 |
| **C** | 4.8 | ±0.2 |
| **D** | 3.0 | ±0.5 |
| **E** | 2.0 | ±0.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -55°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



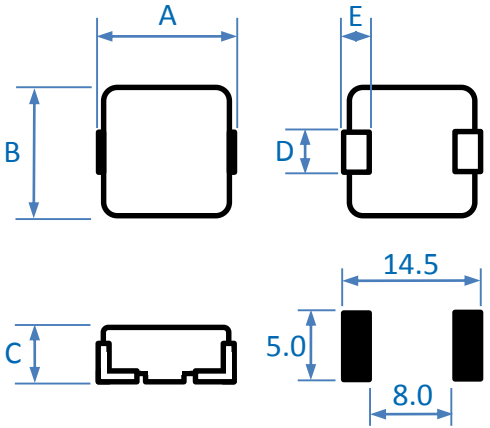

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 13.5 | ±1.0 |
| B | 12.8 | ±0.5 |
| C | 5.0 | Max. |
| D | 3.8 | ±0.5 |
| E | 2.5 | ±0.5 |

| PART NO. | Inductance (µH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1250-R10MCC | 0.10 | 0.53 | 0.60 | 55 | 118 |
| MCS1250-R22MCC | 0.22 | 0.64 | 0.80 | 51 | 110 |
| MCS1250-R33MCC | 0.33 | 0.85 | 1.10 | 42 | 80 |
| MCS1250-R47MCC | 0.47 | 1.10 | 1.30 | 38 | 65 |
| MCS1250-R56MCC | 0.56 | 1.30 | 1.50 | 36 | 55 |
| MCS1250-R68MCC | 0.68 | 1.50 | 1.70 | 34 | 54 |
| MCS1250-R82MCC | 0.82 | 2.00 | 2.30 | 31 | 53 |
| MCS1250-1R0MCC | 1.0 | 2.10 | 2.50 | 29 | 50 |
| MCS1250-1R2MCC | 1.2 | 2.80 | 3.50 | 25 | 49 |
| MCS1250-1R5MCC | 1.5 | 3.40 | 4.10 | 23 | 48 |
| MCS1250-1R8MCC | 1.8 | 4.20 | 4.90 | 19 | 40 |
| MCS1250-2R2MCC | 2.2 | 4.60 | 5.50 | 20 | 32 |
| MCS1250-3R3MCC | 3.3 | 7.70 | 9.20 | 15 | 32 |
| MCS1250-4R7MCC | 4.7 | 12.8 | 15.0 | 12 | 27 |
| MCS1250-5R6MCC | 5.6 | 14.0 | 16.5 | 11.5 | 22 |
| MCS1250-6R8MCC | 6.8 | 15.4 | 18.5 | 11 | 21 |
| MCS1250-7R8MCC | 7.8 | 17.2 | 20.5 | 10 | 18 |
| MCS1250-8R2MCC | 8.2 | 18.9 | 22.5 | 9.5 | 18 |
| MCS1250-100MCC | 10 | 21.4 | 25.5 | 9 | 16 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -25°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes



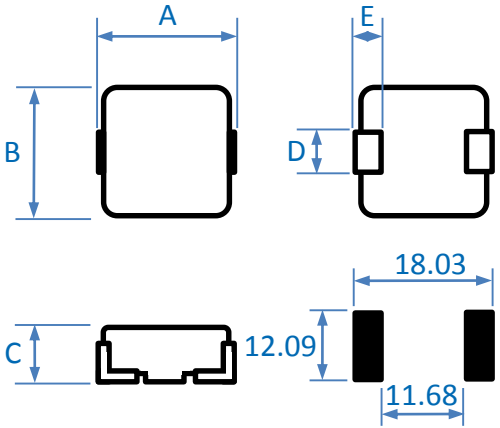

Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 13.5 | ±1.0 |
| B | 12.8 | ±0.5 |
| C | 6.5 | Max. |
| D | 3.2 | ±0.5 |
| E | 2.5 | ±0.5 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1265-R10MCC | 0.10 | 0.47 | 0.50 | 60 | 120 |
| MCS1265-R15MCC | 0.15 | 0.53 | 0.60 | 55 | 118 |
| MCS1265-R22MCC | 0.22 | 0.63 | 0.70 | 53 | 112 |
| MCS1265-R30MCC | 0.30 | 0.70 | 0.80 | 48 | 72 |
| MCS1265-R33MCC | 0.33 | 0.83 | 0.90 | 46 | 65 |
| MCS1265-R47MCC | 0.47 | 1.00 | 1.20 | 41 | 63 |
| MCS1265-R56MCC | 0.56 | 1.20 | 1.40 | 37 | 62 |
| MCS1265-R68MCC | 0.68 | 1.40 | 1.60 | 35 | 60 |
| MCS1265-R82MCC | 0.82 | 1.60 | 1.90 | 33 | 50 |
| MCS1265-1R0MCC | 1.0 | 1.70 | 2.00 | 32 | 49 |
| MCS1265-1R2MCC | 1.2 | 2.10 | 2.50 | 30 | 48 |
| MCS1265-1R5MCC | 1.5 | 2.50 | 3.00 | 27 | 45 |
| MCS1265-1R8MCC | 1.8 | 2.80 | 3.20 | 24 | 41 |
| MCS1265-2R2MCC | 2.2 | 3.50 | 4.20 | 22 | 40 |
| MCS1265-3R3MCC | 3.3 | 5.70 | 6.80 | 18 | 35 |
| MCS1265-4R7MCC | 4.7 | 9.30 | 11.2 | 13.5 | 30 |
| MCS1265-5R6MCC | 5.6 | 11.8 | 12.8 | 12 | 26.5 |
| MCS1265-6R8MCC | 6.8 | 13.1 | 14.0 | 11.5 | 16.5 |
| MCS1265-8R2MCC | 8.2 | 14.5 | 15.5 | 10.5 | 16 |
| MCS1265-100MCC | 10 | 15.8 | 16.8 | 10 | 15.5 |
| MCS1265-150MCC | 15 | 25 | 29 | 6 | 9 |
| MCS1265-220MCC | 22 | 34 | 39.5 | 5 | 7.5 |
| MCS1265-330MCC | 33 | 55 | 65 | 4 | 6 |
| MCS1265-470MCC | 47 | 80 | 92 | 3 | 5 |
| MCS1265-680MCC | 68 | 122 | 134 | 2 | 3.5 |

(1) Test Freq: 100kHz, 1.0V
(2) All test data referenced to 25°C ambient
(3) Operating Temperature Range -25°C to +125°C
(4) Rated Current: DC current (A) that will cause an approximate ΔT of 40K
(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

# High Current Molding Power Chokes




Unit: mm

| | DIM. | TOL. |
|---|---|---|
| A | 18.00 | ±0.3 |
| B | 17.15 | Max. |
| C | 7.0 | Max. |
| D | 11.94 | ±0.3 |
| E | 2.7 | ±0.4 |

| PART NO. | Inductance (μH)±20% | DCR mΩ Typical 25℃ | DCR mΩ MAX.25℃ | Rated Current Typical (A) | Isat Typical (A) |
|---|---|---|---|---|---|
| MCS1770-R82MCC | 0.82 | 0.98 | 1.08 | 56.5 | 45.0 |
| MCS1770-1R0MCC | 1.0 | 1.21 | 1.27 | 55.5 | 32.0 |
| MCS1770-1R5MCC | 1.5 | 1.54 | 1.62 | 48.0 | 31.0 |
| MCS1770-2R2MCC | 2.2 | 1.85 | 1.98 | 43.5 | 28.0 |
| MCS1770-3R3MCC | 3.3 | 2.79 | 2.93 | 35.0 | 27.0 |
| MCS1770-4R7MCC | 4.7 | 3.98 | 4.18 | 30.0 | 21.0 |
| MCS1770-5R6MCC | 5.6 | 4.23 | 4.44 | 28.0 | 21.0 |
| MCS17706R8MCC | 6.8 | 5.86 | 6.15 | 22.5 | 18.5 |
| MCS1770-8R2MCC | 8.2 | 7.71 | 8.10 | 21.0 | 18.0 |
| MCS1770-100MCC | 10.0 | 8.89 | 9.33 | 19.0 | 17.0 |
| MCS1770-150MCC | 15.0 | 13.7 | 14.4 | 14.0 | 12.0 |
| MCS1770-220MCC | 22.0 | 20.0 | 21.0 | 12.0 | 9.50 |
| MCS1770-330MCC | 33.0 | 35.1 | 37.0 | 10.7 | 9.00 |
| MCS1770-470MCC | 47.0 | 40.7 | 42.7 | 8.70 | 8.60 |
| MCS1770-560MCC | 56.0 | 55.0 | 57.8 | 7.20 | 4.20 |
| MCS1770-680MCC | 68.0 | 72.1 | 75.7 | 6.10 | 4.50 |
| MCS1770-820MCC | 82.0 | 87.3 | 91.7 | 5.50 | 4.50 |
| MCS1770-101MCC | 100.0 | 105.0 | 110.0 | 5.00 | 4.00 |

(1) Test Freq: 100kHz, 1.0V
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(3) Operating Temperature Range -25°C to +125°C
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(5) Isat: DC current (A) that will cause L0 to drop approximately 30%
(6) The part temperature (ambient + temp rise) should not exceed +125°C

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