



BOURNS[®]

Features

- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic surface mounting
- Wide inductance range (1.0nH to 1000uH)

Applications

- Mobil phones
- Cellular phones
- CTV, VCR, HIC, FDD

CM45, CM32, CM25, CM20, CM16, CM10 SMT Chip Inductors

General Specifications

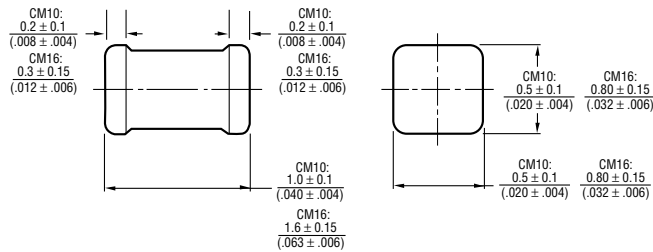
| | |
|------------------------------------|------------------|
| Temperature Rise | 20°C max. |
| Ambient Temperature | 80°C max. |
| Operating Temperature | -20°C to +100°C |
| Storage Temperature | -40°C to +100°C |
| Resistance to Soldering Heat | 260°C, 5 seconds |

Materials

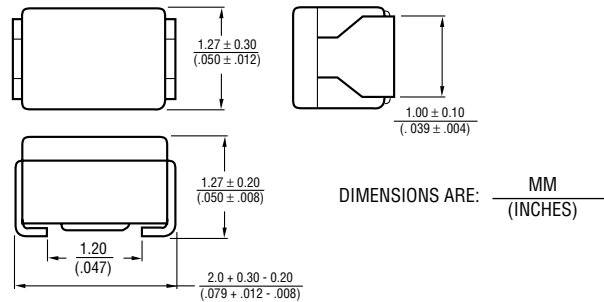
| | |
|------------------------------|-------------------------|
| Core Material | |
| CM10, CM16 | Alumina Ceramic |
| CM20 | Polymer 3.9nH to 1000nH |
| CM25 | Polymer 10nH to 180nH |
| CM32 | Polymer 47nH to 180nH |
| Ferrite Core | |
| CM25 | 220nH to 100uH |
| CM32 | 220nH + |
| CM45 | All |
| Coil Type | |
| CM10, CM16 | Copper plating |
| CM20, CM25, CM32, CM45 | Copper wire |
| Enclosure | |
| CM10, CM16 | Resin |
| CM20, CM25, CM32, CM45 | Epoxy resin |

Product Dimensions

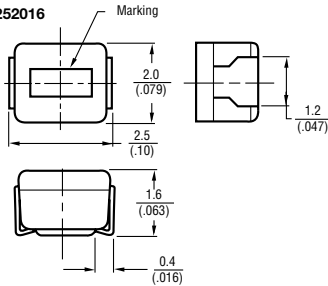
CM100505, CM160808



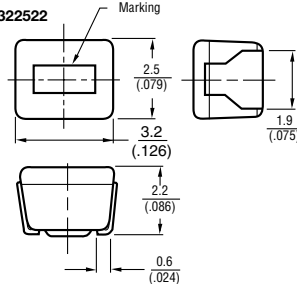
CM201212



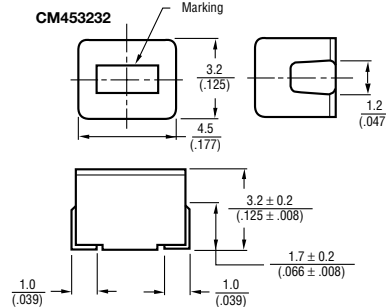
CM252016



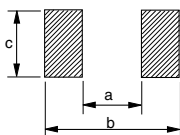
CM322522



CM453232



Recommended Land Pattern Dimensions



| Model | a | b | c |
|-------|---------------------------|---------------------------|---------------------------|
| CM10 | 0.5 to 0.6 (.019 to .023) | 1.5 to 1.7 (.059 to .067) | 0.5 to 0.6 (.019 to .023) |
| CM16 | 0.8 to 1.0 (.032 to .039) | 2.0 to 2.6 (.079 to .102) | 0.7 to 0.9 (.028 to .035) |
| CM20 | 1.0 to 1.2 (.039 to .047) | 3.0 to 3.8 (.118 to .150) | 0.9 to 1.3 (.028 to .051) |
| CM25 | 1.4 to 1.5 (.055 to .059) | 3.5 to 4.0 (.138 to .157) | 1.2 to 1.6 (.047 to .063) |
| CM32 | 1.6 to 2.0 (.063 to .079) | 4.0 to 4.6 (.157 to .181) | 1.9 to 2.4 (.075 to .094) |
| CM45 | 2.4 to 2.6 (.094 to .102) | 5.5 to 6.0 (.217 to .236) | 2.0 to 3.0 (.079 to .118) |

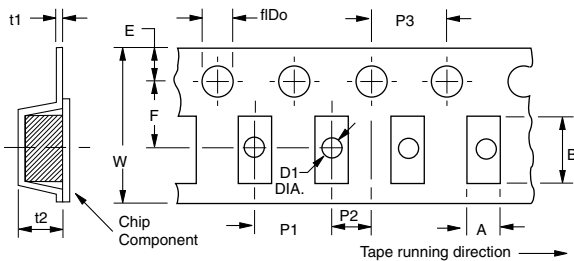
Specifications are subject to change without notice.

CM45, CM32, CM25, CM20, CM16, CM10 SMT Chip Inductors

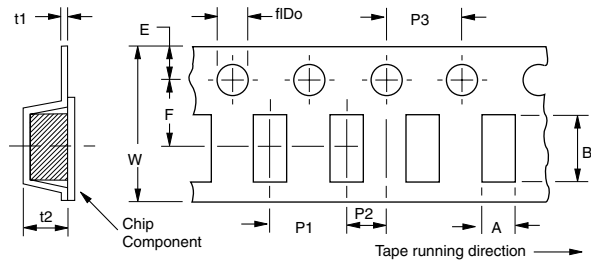


Packaging Specifications

CM10, CM16, CM20, CM25, CM32



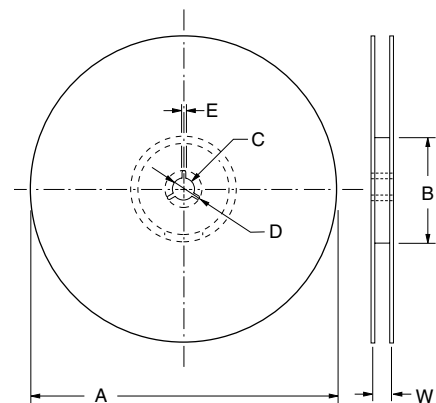
CM45



| Model | A | B | W | F | E | P1 | P2 | P3 | øD0 | øD1 | t1 | t2 |
|-------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| CM10 | 0.71 (.027) | 1.21 (.047) | 8.00 (.315) | 3.50 (.138) | 1.75 (.069) | 4.00 (.157) | 2.00 (.079) | 4.00 (.157) | 1.50 (.059) | 0.60 (.024) | 0.27 (.011) | 1.20 (.047) |
| CM16 | 1.00 (.039) | 1.80 (.071) | 8.00 (.315) | 3.50 (.138) | 1.75 (.069) | 4.00 (.157) | 2.00 (.079) | 4.00 (.157) | 1.50 (.059) | 0.60 (.024) | 0.27 (.011) | 1.20 (.047) |
| CM20 | 1.45 (.057) | 2.25 (.089) | 8.00 (.315) | 3.50 (.138) | 1.75 (.069) | 4.00 (.157) | 2.00 (.079) | 4.00 (.157) | 1.50 (.059) | 1.00 (.039) | 0.25 (.010) | 1.55 (.061) |
| CM25 | 2.40 (.094) | 2.90 (.114) | 8.00 (.315) | 3.50 (.138) | 1.75 (.069) | 4.00 (.157) | 2.00 (.079) | 4.00 (.157) | 1.50 (.059) | 1.10 (.043) | 0.25 (.010) | 1.85 (.073) |
| CM32 | 2.80 (.110) | 3.60 (.142) | 8.00 (.315) | 3.50 (.138) | 1.75 (.069) | 4.00 (.157) | 2.00 (.079) | 4.00 (.157) | 1.50 (.059) | — | 0.25 (.010) | 2.40 (.094) |
| CM45 | 3.60 (.142) | 4.90 (.193) | 12.00 (.472) | 5.50 (.217) | 1.75 (.069) | 8.00 (.315) | 2.00 (.079) | 4.00 (.157) | 1.50 (.059) | — | 0.30 (.012) | 3.50 (.138) |

Reel Dimensions

| Model | A | B | C | D | E | W |
|-------|-------------|---------|-----------|-----------|----------|-----------|
| CM10 | 178 (7.008) | 60 min. | 13 (.512) | 21 (.827) | 2 (.079) | 9 (.354) |
| CM16 | 178 (7.008) | 60 min. | 13 (.512) | 21 (.827) | 2 (.079) | 9 (.354) |
| CM20 | 178 (7.008) | 60 min. | 13 (.512) | 21 (.827) | 2 (.079) | 9 (.354) |
| CM25 | 178 (7.008) | 60 min. | 13 (.512) | 21 (.827) | 2 (.079) | 9 (.354) |
| CM32 | 178 (7.008) | 60 min. | 13 (.512) | 21 (.827) | 2 (.079) | 9 (.354) |
| CM45 | 178 (7.008) | 60 min. | 13 (.512) | 21 (.827) | 2 (.079) | 13 (.512) |



Packaging

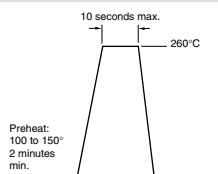
| Model | Quantity | Weight |
|-------|-----------|--------|
| CM10 | 10000 pcs | 150g |
| CM16 | 3000 pcs | 90g |
| CM20 | 3000 pcs | 90g |

| Model | Quantity | Weight |
|-------|----------|--------|
| CM25 | 2000 pcs | 100g |
| CM32 | 2000 pcs | 190g |
| CM45 | 500 pcs | 100g |

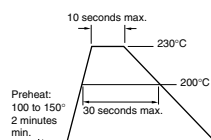
Soldering

| | |
|----------------|--|
| Flow Soldering | 260°C maximum for 5 seconds (2 wave solder method) |
| Infra-red | 200°C for a maximum of 30 seconds. Peak of 240°C for a maximum of 5 seconds. If the solder does not reflow simultaneously under each terminal, there may be a misalignment of the component on the board. For this reason, it is recommended that the inductor be adhered to the board prior to reflow. |
| Vapor-phase | 215°C for a maximum of 30 seconds. |

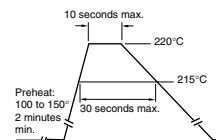
Flow Soldering



Infra-red Soldering



Vapor-phase Soldering



Specifications are subject to change without notice.

Chip Inductors - CM453232 Series Wirewound

BOURNS®

| 1812 Size Part number | Inductance uH | Tolerance | Q min. | Test Frequency MHz | SRF min. MHz | RDC ohm max | IDC mA max |
|--------------------------|------------------|-----------|-----------|-----------------------|-----------------|----------------|---------------|
| CM453232-R10M | 0.10 | ±20% | 35 | 25.2 | 300 | 0.18 | 800 |
| CM453232-R12M | 0.12 | ±20% | 35 | 25.2 | 280 | 0.2 | 770 |
| CM453232-R15M | 0.15 | ±20% | 35 | 25.2 | 250 | 0.22 | 730 |
| CM453232-R18M | 0.18 | ±20% | 35 | 25.2 | 220 | 0.24 | 700 |
| CM453232-R22M | 0.22 | ±20% | 40 | 25.2 | 200 | 0.25 | 665 |
| CM453232-R27M | 0.27 | ±20% | 40 | 25.2 | 180 | 0.26 | 635 |
| CM453232-R33M | 0.33 | ±20% | 40 | 25.2 | 165 | 0.28 | 605 |
| CM453232-R39M | 0.39 | ±20% | 40 | 25.2 | 150 | 0.30 | 575 |
| CM453232-R47M | 0.47 | ±20% | 40 | 25.2 | 145 | 0.32 | 545 |
| CM453232-R56M | 0.56 | ±20% | 40 | 25.2 | 140 | 0.36 | 520 |
| CM453232-R68M | 0.68 | ±20% | 40 | 25.2 | 135 | 0.40 | 500 |
| CM453232-R82M | 0.82 | ±20% | 40 | 25.2 | 130 | 0.45 | 475 |
| CM453232-1R0K | 1.0 | ±10% | 50 | 7.96 | 100 | 0.50 | 450 |
| CM453232-1R2K | 1.2 | ±10% | 50 | 7.96 | 80 | 0.55 | 430 |
| CM453232-1R5K | 1.5 | ±10% | 50 | 7.96 | 70 | 0.60 | 410 |
| CM453232-1R8K | 1.8 | ±10% | 50 | 7.96 | 60 | 0.65 | 390 |
| CM453232-2R2K | 2.2 | ±10% | 50 | 7.96 | 55 | 0.70 | 380 |
| CM453232-2R7K | 2.7 | ±10% | 50 | 7.96 | 50 | 0.75 | 370 |
| CM453232-3R3K | 3.3 | ±10% | 50 | 7.96 | 45 | 0.80 | 355 |
| CM453232-3R9K | 3.9 | ±10% | 50 | 7.96 | 40 | 0.90 | 330 |
| CM453232-4R7K | 4.7 | ±10% | 50 | 7.96 | 35 | 1.00 | 315 |
| CM453232-5R6K | 5.6 | ±10% | 50 | 7.96 | 33 | 1.10 | 300 |
| CM453232-6R8K | 6.8 | ±10% | 50 | 7.96 | 27 | 1.2 | 285 |
| CM453232-8R2K | 8.2 | ±10% | 50 | 7.96 | 25 | 1.4 | 270 |
| CM453232-100K | 10 | ±10% | 50 | 2.52 | 20 | 1.6 | 250 |
| CM453232-120K | 12 | ±10% | 50 | 2.52 | 18 | 2 | 225 |
| CM453232-150K | 15 | ±10% | 50 | 2.52 | 17 | 2.5 | 200 |
| CM453232-180K | 18 | ±10% | 50 | 2.52 | 15 | 2.8 | 190 |
| CM453232-220K | 22 | ±10% | 50 | 2.52 | 13 | 3.2 | 180 |
| CM453232-270K | 27 | ±10% | 50 | 2.52 | 12 | 3.6 | 170 |
| CM453232-330K | 33 | ±10% | 50 | 2.52 | 11 | 4 | 160 |
| CM453232-390K | 39 | ±10% | 50 | 2.52 | 10 | 4.5 | 150 |
| CM453232-470K | 47 | ±10% | 50 | 2.52 | 10 | 5 | 140 |
| CM453232-560K | 56 | ±10% | 50 | 2.52 | 9 | 5.5 | 135 |
| CM453232-680K | 68 | ±10% | 50 | 2.52 | 9 | 6 | 130 |
| CM453232-820K | 82 | ±10% | 50 | 2.52 | 8 | 7 | 120 |
| CM453232-101K | 100 | ±10% | 40 | 2.52 | 8 | 8 | 110 |
| CM453232-121K | 120 | ±10% | 40 | 0.796 | 6 | 8 | 110 |
| CM453232-151K | 150 | ±10% | 40 | 0.796 | 5 | 9 | 105 |
| CM453232-181K | 180 | ±10% | 40 | 0.796 | 5 | 9.5 | 102 |
| CM453232-221K | 220 | ±10% | 40 | 0.796 | 4 | 10 | 100 |
| CM453232-271K | 270 | ±10% | 40 | 0.796 | 4 | 12 | 92 |
| CM453232-331K | 330 | ±10% | 40 | 0.796 | 3.5 | 14 | 85 |
| CM453232-391K | 390 | ±10% | 40 | 0.796 | 3 | 18 | 80 |
| CM453232-471K | 470 | ±10% | 40 | 0.796 | 3 | 26 | 62 |
| CM453232-561K | 560 | ±10% | 30 | 0.796 | 3 | 30 | 50 |
| CM453232-681K | 680 | ±10% | 30 | 0.796 | 3 | 30 | 50 |
| CM453232-821K | 820 | ±10% | 30 | 0.796 | 2.5 | 35 | 30 |
| CM453232-102K | 1000 | ±10% | 30 | 0.252 | 2.5 | 40 | 30 |

TIGHTER TOLERANCE AVAILABLE ON REQUEST. CONSULT FACTORY.

Specifications are subject to change without notice.

Chip Inductors - CM322522 Series Wirewound



| 1210 Size Part number | Inductance μH | Tolerance | Q min. | Test Frequency MHz | SRF min. MHz | RDC ohm max | IDC mA max |
|-----------------------|--------------------------|------------|--------|--------------------|--------------|-------------|------------|
| CM322522-47NM | 0.047 | $\pm 20\%$ | 10 | 100 | 680 | 0.20 | 450 |
| CM322522-56NM | 0.056 | $\pm 20\%$ | 10 | 100 | 600 | 0.22 | 420 |
| CM322522-68NM | 0.068 | $\pm 20\%$ | 10 | 100 | 540 | 0.25 | 400 |
| CM322522-82NM | 0.082 | $\pm 20\%$ | 10 | 100 | 500 | 0.27 | 380 |
| CM322522-R10M | 0.10 | $\pm 20\%$ | 10 | 100 | 450 | 0.30 | 360 |
| CM322522-R12M | 0.12 | $\pm 20\%$ | 10 | 25.2 | 400 | 0.67 | 240 |
| CM322522-R15M | 0.15 | $\pm 20\%$ | 10 | 25.2 | 350 | 0.72 | 230 |
| CM322522-R18M | 0.18 | $\pm 20\%$ | 10 | 25.2 | 320 | 0.81 | 220 |
| CM322522-R22M | 0.22 | $\pm 20\%$ | 25 | 25.2 | 230 | 0.29 | 360 |
| CM322522-R27M | 0.27 | $\pm 20\%$ | 25 | 25.2 | 210 | 0.32 | 345 |
| CM322522-R33M | 0.33 | $\pm 20\%$ | 25 | 25.2 | 190 | 0.35 | 330 |
| CM322522-R39M | 0.39 | $\pm 20\%$ | 25 | 25.2 | 175 | 0.39 | 305 |
| CM322522-R47M | 0.47 | $\pm 20\%$ | 25 | 25.2 | 160 | 0.44 | 290 |
| CM322522-R56M | 0.56 | $\pm 20\%$ | 25 | 25.2 | 150 | 0.49 | 275 |
| CM322522-R68M | 0.68 | $\pm 20\%$ | 25 | 25.2 | 135 | 0.55 | 260 |
| CM322522-R82M | 0.82 | $\pm 20\%$ | 25 | 25.2 | 125 | 0.61 | 245 |
| CM322522-1R0K | 1.0 | $\pm 10\%$ | 30 | 7.96 | 115 | 0.69 | 230 |
| CM322522-1R2K | 1.2 | $\pm 10\%$ | 30 | 7.96 | 100 | 0.75 | 215 |
| CM322522-1R5K | 1.5 | $\pm 10\%$ | 30 | 7.96 | 90 | 0.75 | 210 |
| CM322522-1R8K | 1.8 | $\pm 10\%$ | 30 | 7.96 | 85 | 0.82 | 200 |
| CM322522-2R2K | 2.2 | $\pm 10\%$ | 30 | 7.96 | 80 | 0.95 | 190 |
| CM322522-2R7K | 2.7 | $\pm 10\%$ | 30 | 7.96 | 75 | 1.1 | 180 |
| CM322522-3R3K | 3.3 | $\pm 10\%$ | 30 | 7.96 | 65 | 1.2 | 180 |
| CM322522-3R9K | 3.9 | $\pm 10\%$ | 30 | 7.96 | 60 | 1.3 | 175 |
| CM322522-4R7K | 4.7 | $\pm 10\%$ | 30 | 7.96 | 55 | 1.5 | 165 |
| CM322522-5R6K | 5.6 | $\pm 10\%$ | 30 | 7.96 | 50 | 1.6 | 160 |
| CM322522-6R8K | 6.8 | $\pm 10\%$ | 30 | 7.96 | 45 | 1.8 | 150 |
| CM322522-8R2K | 8.2 | $\pm 10\%$ | 30 | 7.96 | 40 | 2.0 | 140 |
| CM322522-100K | 10 | $\pm 10\%$ | 30 | 2.52 | 36 | 2.1 | 140 |
| CM322522-120K | 12 | $\pm 10\%$ | 30 | 2.52 | 33 | 2.5 | 125 |
| CM322522-150K | 15 | $\pm 10\%$ | 30 | 2.52 | 30 | 2.8 | 120 |
| CM322522-180K | 18 | $\pm 10\%$ | 30 | 2.52 | 27 | 3.3 | 110 |
| CM322522-220K | 22 | $\pm 10\%$ | 30 | 2.52 | 25 | 3.7 | 105 |
| CM322522-270K | 27 | $\pm 10\%$ | 30 | 2.52 | 22 | 5.0 | 90 |
| CM322522-330K | 33 | $\pm 10\%$ | 30 | 2.52 | 20 | 5.6 | 85 |
| CM322522-390K | 39 | $\pm 10\%$ | 30 | 2.52 | 20 | 6.4 | 80 |
| CM322522-470K | 47 | $\pm 10\%$ | 30 | 2.52 | 15 | 7.0 | 75 |
| CM322522-560K | 56 | $\pm 10\%$ | 30 | 2.52 | 15 | 8.0 | 70 |
| CM322522-680K | 68 | $\pm 10\%$ | 30 | 2.52 | 15 | 9.0 | 65 |
| CM322522-820K | 82 | $\pm 10\%$ | 30 | 2.52 | 11 | 10 | 60 |
| CM322522-101K | 100 | $\pm 10\%$ | 20 | 0.796 | 10 | 10 | 60 |
| CM322522-121K | 120 | $\pm 10\%$ | 20 | 0.796 | 10 | 11 | 55 |
| CM322522-151K | 150 | $\pm 10\%$ | 20 | 0.796 | 8 | 15 | 50 |
| CM322522-181K | 180 | $\pm 10\%$ | 20 | 0.796 | 7 | 17 | 50 |
| CM322522-221K | 220 | $\pm 10\%$ | 20 | 0.796 | 7 | 21 | 45 |

TIGHTER TOLERANCE AVAILABLE ON REQUEST. CONSULT FACTORY.

COMMENT: 47nH TO 180nH 'AIR CORE' / 220nH TO 220uH 'FERRITE CORE'

Specifications are subject to change without notice.

Chip Inductors - CM252016 Series Wirewound

BOURNS®

| 1008 Size Part number | Inductance uH | Tolerance | Q min. | Test Frequency MHz | SRF min. MHz | RDC ohm max | IDC mA max |
|-----------------------|---------------|-----------|--------|--------------------|--------------|-------------|------------|
| CM252016-10NK | 0.010 | ±10% | 10 | 100 | 2500 | 0.32 | 280 |
| CM252016-12NK | 0.012 | ±10% | 10 | 100 | 2200 | 0.34 | 270 |
| CM252016-15NK | 0.015 | ±10% | 10 | 100 | 1800 | 0.38 | 255 |
| CM252016-18NK | 0.018 | ±10% | 10 | 100 | 1550 | 0.4 | 250 |
| CM252016-22NK | 0.022 | ±10% | 15 | 100 | 1350 | 0.43 | 240 |
| CM252016-27NK | 0.027 | ±10% | 15 | 100 | 1150 | 0.47 | 230 |
| CM252016-33NK | 0.033 | ±10% | 15 | 100 | 1000 | 0.51 | 220 |
| CM252016-39NK | 0.039 | ±10% | 15 | 100 | 890 | 0.55 | 215 |
| CM252016-47NK | 0.047 | ±10% | 15 | 100 | 770 | 0.59 | 205 |
| CM252016-56NK | 0.056 | ±10% | 15 | 100 | 670 | 0.63 | 200 |
| CM252016-68NK | 0.068 | ±10% | 15 | 100 | 590 | 0.68 | 190 |
| CM252016-82NK | 0.082 | ±10% | 15 | 100 | 520 | 0.73 | 185 |
| CM252016-R10K | 0.10 | ±10% | 10 | 25.2 | 460 | 0.80 | 175 |
| CM252016-R12K | 0.12 | ±10% | 10 | 25.2 | 400 | 0.87 | 170 |
| CM252016-R15K | 0.15 | ±10% | 10 | 25.2 | 340 | 0.98 | 160 |
| CM252016-R18K | 0.18 | ±10% | 10 | 25.2 | 300 | 1.05 | 155 |
| CM252016-R22M | 0.22 | ±20% | 25 | 25.2 | 230 | 0.70 | 190 |
| CM252016-R27M | 0.27 | ±20% | 25 | 25.2 | 210 | 0.75 | 180 |
| CM252016-R33M | 0.33 | ±20% | 25 | 25.2 | 190 | 0.85 | 170 |
| CM252016-R39M | 0.39 | ±20% | 25 | 25.2 | 175 | 0.95 | 160 |
| CM252016-R47M | 0.47 | ±20% | 25 | 25.2 | 160 | 1.00 | 155 |
| CM252016-R56M | 0.56 | ±20% | 25 | 25.2 | 150 | 1.10 | 150 |
| CM252016-R68M | 0.68 | ±20% | 25 | 25.2 | 135 | 1.25 | 140 |
| CM252016-R82M | 0.82 | ±20% | 25 | 25.2 | 125 | 1.40 | 130 |
| CM252016-1R0K | 1.0 | ±10% | 25 | 7.96 | 115 | 0.65 | 195 |
| CM252016-1R2K | 1.2 | ±10% | 25 | 7.96 | 100 | 0.75 | 180 |
| CM252016-1R5K | 1.5 | ±10% | 25 | 7.96 | 90 | 0.85 | 170 |
| CM252016-1R8K | 1.8 | ±10% | 25 | 7.96 | 85 | 0.95 | 160 |
| CM252016-2R2K | 2.2 | ±10% | 25 | 7.96 | 80 | 1.05 | 155 |
| CM252016-2R7K | 2.7 | ±10% | 25 | 7.96 | 75 | 1.2 | 145 |
| CM252016-3R3K | 3.3 | ±10% | 25 | 7.96 | 65 | 1.3 | 135 |
| CM252016-3R9K | 3.9 | ±10% | 25 | 7.96 | 60 | 1.4 | 130 |
| CM252016-4R7K | 4.7 | ±10% | 25 | 7.96 | 55 | 1.6 | 125 |
| CM252016-5R6K | 5.6 | ±10% | 25 | 7.96 | 50 | 1.8 | 120 |
| CM252016-6R8K | 6.8 | ±10% | 25 | 7.96 | 45 | 1.9 | 115 |
| CM252016-8R2K | 8.2 | ±10% | 25 | 7.96 | 40 | 2.2 | 105 |
| CM252016-100K | 10 | ±10% | 25 | 2.52 | 32 | 3.5 | 80 |
| CM252016-120K | 12 | ±10% | 25 | 2.52 | 30 | 3.8 | 75 |
| CM252016-150K | 15 | ±10% | 25 | 2.52 | 28 | 4.4 | 70 |
| CM252016-180K | 18 | ±10% | 25 | 2.52 | 25 | 5.0 | 65 |
| CM252016-220K | 22 | ±10% | 25 | 2.52 | 22 | 5.8 | 60 |
| CM252016-270K | 27 | ±10% | 20 | 2.52 | 21 | 6.3 | 115 |
| CM252016-330K | 33 | ±10% | 20 | 2.52 | 20 | 7.1 | 110 |
| CM252016-390K | 39 | ±10% | 20 | 2.52 | 18 | 9.5 | 90 |
| CM252016-470K | 47 | ±10% | 20 | 2.52 | 17 | 11.0 | 80 |
| CM252016-560K | 56 | ±10% | 20 | 2.52 | 16 | 12.1 | 75 |
| CM252016-680K | 68 | ±10% | 20 | 2.52 | 15 | 16.6 | 70 |
| CM252016-820K | 82 | ±10% | 20 | 2.52 | 13 | 19.0 | 65 |
| CM252016-101K | 100 | ±10% | 15 | 0.796 | 12 | 21.0 | 60 |

TIGHTER TOLERANCE AVAILABLE ON REQUEST. CONSULT FACTORY.

COMMENT: 10nH TO 180nH 'AIR CORE' / 220nH TO 220uH 'FERRITE CORE'

Specifications are subject to change without notice.

Chip Inductors - CM201212 Series Wirewound

BOURNS®

| 0805 Size Part number | Inductance uH | Tolerance | Q min. | Test Frequency MHz | SRF min. MHz | RDC ohm max | IDC mA max |
|--------------------------|------------------|-----------|-----------|-----------------------|-----------------|----------------|---------------|
| CM201212-3N9M | 0.0039 | ±20% | 6 | 100 | 6000 | 0.1 | 540 |
| CM201212-4N7M | 0.0074 | ±20% | 6 | 100 | 6000 | 0.1 | 540 |
| CM201212-5N6M | 0.0056 | ±20% | 6 | 100 | 5000 | 0.12 | 540 |
| CM201212-6N8M | 0.0068 | ±20% | 8 | 100 | 5000 | 0.15 | 540 |
| CM201212-8N2M | 0.0082 | ±20% | 8 | 100 | 5000 | 0.16 | 540 |
| CM201212-10NK | 0.010 | ±10% | 10 | 100 | 3300 | 0.20 | 540 |
| CM201212-12NK | 0.012 | ±10% | 10 | 100 | 3300 | 0.23 | 535 |
| CM201212-15NK | 0.015 | ±10% | 12 | 100 | 3000 | 0.25 | 520 |
| CM201212-18NK | 0.018 | ±10% | 12 | 100 | 3000 | 0.27 | 480 |
| CM201212-22NK | 0.022 | ±10% | 15 | 100 | 2600 | 0.29 | 465 |
| CM201212-27NK | 0.027 | ±10% | 15 | 100 | 2500 | 0.32 | 455 |
| CM201212-33NK | 0.033 | ±10% | 15 | 100 | 2000 | 0.37 | 395 |
| CM201212-39NK | 0.039 | ±10% | 15 | 100 | 2000 | 0.38 | 390 |
| CM201212-47NK | 0.047 | ±10% | 15 | 100 | 1600 | 0.42 | 385 |
| CM201212-56NK | 0.056 | ±10% | 15 | 100 | 1500 | 0.45 | 360 |
| CM201212-68NK | 0.068 | ±10% | 15 | 100 | 1400 | 0.52 | 340 |
| CM201212-82NK | 0.082 | ±10% | 15 | 100 | 1100 | 0.60 | 330 |
| CM201212-R10K | 0.10 | ±10% | 8 | 25.2 | 800 | 0.78 | 285 |
| CM201212-R12K | 0.12 | ±10% | 8 | 25.2 | 600 | 0.99 | 275 |
| CM201212-R15K | 0.15 | ±10% | 10 | 25.2 | 600 | 1.47 | 230 |
| CM201212-R18K | 0.18 | ±10% | 10 | 25.2 | 600 | 1.61 | 195 |
| CM201212-R22K | 0.22 | ±10% | 10 | 25.2 | 500 | 1.84 | 170 |
| CM201212-R27K | 0.27 | ±10% | 10 | 25.2 | 300 | 1.95 | 165 |
| CM201212-R33K | 0.33 | ±10% | 10 | 25.2 | 200 | 2.16 | 160 |
| CM201212-R39K | 0.39 | ±10% | 10 | 25.2 | 150 | 2.35 | 150 |
| CM201212-R47K | 0.47 | ±10% | 10 | 25.2 | 150 | 2.57 | 145 |
| CM201212-R56K | 0.56 | ±10% | 10 | 25.2 | 100 | 2.65 | 140 |
| CM201212-R68K | 0.68 | ±10% | 10 | 25.2 | 100 | 2.99 | 130 |
| CM201212-R82K | 0.82 | ±10% | 10 | 25.2 | 80 | 3.35 | 125 |
| CM201212-1R0K | 1.0 | ±10% | 8 | 7.96 | 80 | 3.82 | 120 |

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Chip Inductors - CM160808, CM100505 Series Laser-cut Winding



| 0603 Size Part number | Inductance nH | Tolerance | Q min. | Test Frequency MHz | SRF min. MHz | RDC ohm max | IDC mA max |
|--------------------------|------------------|-----------|-----------|-----------------------|-----------------|----------------|---------------|
| CM160808-1N5D | 1.5 | ± 0.3nH | 8 | 100 | 6000 | 0.07 | 500 |
| CM160808-1N8D | 1.8 | ± 0.3nH | 8 | 100 | 6000 | 0.08 | 500 |
| CM160808-2N2D | 2.2 | ± 0.3nH | 8 | 100 | 6000 | 0.09 | 500 |
| CM160808-2N7D | 2.7 | ± 0.3nH | 8 | 100 | 6000 | 0.10 | 500 |
| CM160808-3N3D | 3.3 | ± 0.3nH | 9 | 100 | 5500 | 0.12 | 500 |
| CM160808-3N9J | 3.9 | ±5% | 9 | 100 | 5500 | 0.15 | 450 |
| CM160808-4N7J | 4.7 | ±5% | 9 | 100 | 4800 | 0.17 | 450 |
| CM160808-5N6J | 5.6 | ±5% | 9 | 100 | 4600 | 0.18 | 430 |
| CM160808-6N8J | 6.8 | ±5% | 9 | 100 | 3550 | 0.20 | 430 |
| CM160808-8N2J | 8.2 | ±5% | 9 | 100 | 3500 | 0.28 | 400 |
| CM160808-10NJ | 10 | ±5% | 10 | 100 | 2800 | 0.32 | 400 |
| CM160808-12NJ | 12 | ±5% | 10 | 100 | 2800 | 0.35 | 400 |
| CM160808-15NJ | 15 | ±5% | 10 | 100 | 2500 | 0.41 | 350 |
| CM160808-18NJ | 18 | ±5% | 10 | 100 | 2300 | 0.45 | 350 |
| CM160808-22NJ | 22 | ±5% | 10 | 100 | 2000 | 0.50 | 300 |
| CM160808-27NJ | 27 | ±5% | 10 | 100 | 2000 | 0.55 | 300 |
| CM160808-33NJ | 33 | ±5% | 10 | 100 | 1800 | 0.60 | 300 |
| CM160808-39NJ | 39 | ±5% | 11 | 100 | 1800 | 0.80 | 300 |
| CM160808-47NJ | 47 | ±5% | 11 | 100 | 1800 | 0.95 | 250 |
| CM160808-56NJ | 56 | ±5% | 12 | 100 | 1800 | 1.2 | 250 |
| CM160808-68NJ | 68 | ±5% | 12 | 100 | 1500 | 1.3 | 250 |
| CM160808-82NJ | 82 | ±5% | 12 | 100 | 1500 | 1.5 | 250 |
| CM160808-R10J | 100 | ±5% | 12 | 100 | 1300 | 1.8 | 200 |

| 0402 Size Part number | Inductance nH | Tolerance | Q min. | Test Frequency MHz | SRF min. MHz | RDC ohm max | IDC mA max |
|--------------------------|------------------|-----------|-----------|-----------------------|-----------------|----------------|---------------|
| CM100505-1N0D | 1.00 | ±0.3nH | 8 | 100 | 6000 | 0.05 | 400 |
| CM100505-1N2D | 1.20 | ±0.3nH | 8 | 100 | 6000 | 0.06 | 400 |
| CM100505-1N5D | 1.50 | ±0.3nH | 8 | 100 | 6000 | 0.07 | 400 |
| CM100505-1N8D | 1.80 | ±0.3nH | 8 | 100 | 6000 | 0.08 | 400 |
| CM100505-2N2D | 2.20 | ±0.3nH | 8 | 100 | 6000 | 0.09 | 400 |
| CM100505-2N7D | 2.70 | ±0.3nH | 8 | 100 | 5500 | 0.10 | 400 |
| CM100505-3N3D | 3.30 | ±0.3nH | 8 | 100 | 5500 | 0.12 | 400 |
| CM100505-3N9D | 3.90 | ±0.3nH | 8 | 100 | 5200 | 0.15 | 360 |
| CM100505-4N7D | 4.70 | ±0.3nH | 8 | 100 | 4800 | 0.17 | 360 |
| CM100505-5N6D | 5.60 | ±0.3nH | 8 | 100 | 4600 | 0.19 | 340 |
| CM100505-6N8J | 6.80 | ± 5% | 8 | 100 | 4000 | 0.30 | 320 |
| CM100505-8N2J | 8.20 | ± 5% | 8 | 100 | 3500 | 0.35 | 320 |
| CM100505-10NJ | 10.00 | ± 5% | 8 | 100 | 2800 | 0.41 | 320 |
| CM100505-12NJ | 12.00 | ± 5% | 8 | 100 | 2800 | 0.45 | 320 |
| CM100505-15NJ | 15.00 | ± 5% | 8 | 100 | 2500 | 0.60 | 240 |
| CM100505-18NJ | 18.00 | ± 5% | 8 | 100 | 2200 | 0.70 | 240 |
| CM100505-22NJ | 22.00 | ± 5% | 8 | 100 | 2000 | 0.80 | 200 |
| CM100505-27NJ | 27.00 | ± 5% | 8 | 100 | 1800 | 1.2 | 200 |
| CM100505-33NJ | 33.00 | ± 5% | 8 | 100 | 1800 | 1.4 | 170 |
| CM100505-39NJ | 39.00 | ± 5% | 8 | 100 | 1800 | 1.7 | 150 |
| CM100505-47NJ | 47.00 | ± 5% | 8 | 100 | 1800 | 2.1 | 140 |

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