

Multilayer Chip Ferrite Inductors

FERRITE INDUCTORS

PRODUCT CATALOG



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Multilayer Chip Ferrite Inductors

◎ Product introduction 產品介紹

- Magnetic shielding technology, Component magnetic circuit closure
採用磁屏蔽技術，元件磁路閉合
- Excellent Q factor and SRF characteristics
優良的品質因數和超導特性
- Using Multilayer structure, to achieve high reliability
採用多層結構，實現了高可靠性
- Terminal electrode has been electroplated, suitable flow soldering, reflow soldering an arbitrary welding method
端子電極已經過電鍍，可適用流動焊接，回流焊接任意一種焊接工法



◎ Product application 產品應用

- Informatron technology equipment, computers, telecommunications, radar detectors, automotive electronics cellular phones.
計算機，信息技術設備，通信，雷達，控測器，汽車電子等產品。

◎ Product Identification 產品標識

IND 0402 - 4R7 K T

IND-----Series name 系列名稱

0402-----Dimension 產品尺寸

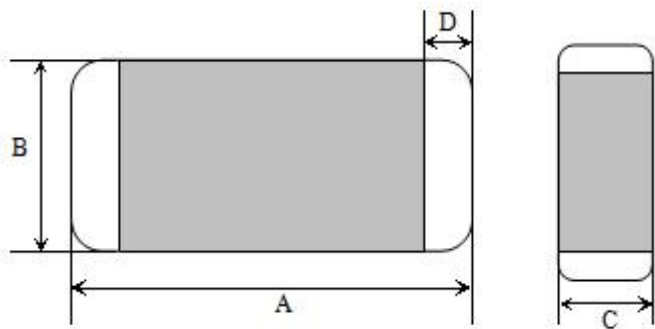
4R7-----Inductance 電感值【4R7=4.7 μ H】

K-----Tolerance 公差【S=±0.3, D=±0.5, J=5%, K=10%, M= 20%】

T-----Taping 編帶盤裝

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◎Shape&Dimensions 形狀與尺寸：

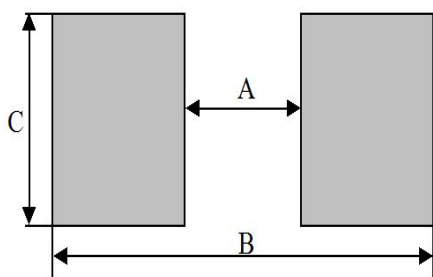


UNIT: mm

| PART NUMBER | A | B | C | D | CHIPS REEL |
|-------------|-----------|-----------|-----------|-----------|------------|
| 0402 | 1.00±0.10 | 0.50±0.10 | 0.50±0.10 | 0.25±0.10 | 10K |
| 0603 | 1.60±0.20 | 0.80±0.20 | 0.80±0.20 | 0.30±0.20 | 4K |
| 0805 | 2.00±0.20 | 1.20±0.20 | 0.90±0.20 | 0.50±0.30 | 4K |
| 1206 | 3.20±0.20 | 1.60±0.20 | 1.10±0.20 | 0.50±0.30 | 3K |
| | | | | | |
| | | | | | |

◎Recommender Land Pattern 推薦焊盤布局：

UNIT: mm



| SIZE CODE | A | B | C |
|-----------|---------|---------|---------|
| 0402 | 0.4 | 1.2-1.4 | 0.6-0.8 |
| 0603 | 0.7-0.8 | 1.8-2.0 | 0.6-0.8 |
| 0805 | 1.0-1.2 | 2.6-4.0 | 1.0-1.2 |
| 1206 | 2 | 4.2-5.2 | 1.2 |

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| ORDERING CORE | Inductance (μH) | L、Q Test Frequencyz (MHz) | Q (Min) | SRF(MHz) MIN | RDC (MAX) (Ω) | Rated Current Max(A) |
|---------------|---------------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND0402-56N | 0.056 | 50 | 10 | 220 | 0.450 | 0.025 |
| IND0402-68N | 0.068 | 50 | 10 | 210 | 0.450 | 0.025 |
| IND0402-82N | 0.082 | 50 | 10 | 200 | 0.450 | 0.025 |
| IND0402-R10 | 0.10 | 25 | 15 | 200 | 0.800 | 0.025 |
| IND0402-R12 | 0.12 | 25 | 15 | 165 | 0.800 | 0.025 |
| IND0402-R15 | 0.15 | 25 | 15 | 140 | 0.900 | 0.025 |
| IND0402-R18 | 0.18 | 25 | 15 | 120 | 0.900 | 0.025 |
| IND0402-R22 | 0.22 | 25 | 15 | 110 | 1.200 | 0.025 |
| IND0402-R27 | 0.27 | 25 | 15 | 95 | 1.200 | 0.025 |
| IND0402-R33 | 0.33 | 25 | 15 | 85 | 1.250 | 0.018 |
| IND0402-R39 | 0.39 | 25 | 15 | 70 | 1.500 | 0.018 |
| IND0402-R47 | 0.47 | 25 | 15 | 68 | 2.000 | 0.018 |
| IND0402-R56 | 0.56 | 10 | 20 | 75 | 0.800 | 0.015 |
| IND0402-R68 | 0.68 | 10 | 20 | 70 | 0.900 | 0.015 |
| IND0402-R82 | 0.82 | 10 | 20 | 65 | 0.900 | 0.015 |
| IND0402-1R0 | 1.00 | 10 | 20 | 40 | 0.800 | 0.015 |
| IND0402-1R2 | 1.20 | 10 | 20 | 35 | 1.200 | 0.015 |
| IND0402-1R5 | 1.50 | 10 | 20 | 30 | 1.200 | 0.015 |
| IND0402-1R8 | 1.80 | 10 | 20 | 30 | 1.450 | 0.015 |
| IND0402-2R2 | 2.20 | 10 | 20 | 28 | 1.700 | 0.010 |
| IND0402-2R7 | 2.70 | 10 | 20 | 22 | 2.000 | 0.010 |
| IND0402-3R3 | 3.30 | 10 | 20 | 20 | 2.350 | 0.010 |
| IND0402-3R9 | 3.90 | 10 | 20 | 18 | 2.550 | 0.010 |
| IND0402-4R7 | 4.70 | 10 | 20 | 15 | 3.150 | 0.010 |
| IND0402-5R6 | 5.60 | 4 | 20 | 13 | 2.350 | 0.003 |
| IND0402-6R8 | 6.80 | 4 | 20 | 11 | 2.550 | 0.003 |
| IND0402-8R2 | 8.20 | 4 | 20 | 10 | 3.150 | 0.003 |
| IND0402-100 | 10.00 | 2 | 20 | 9 | 3.450 | 0.002 |

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|---------------|--------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND0603-56N | 0.056 | 50 | 15 | 300 | 0.300 | 0.050 |
| IND0603-68N | 0.068 | 50 | 10 | 250 | 0.300 | 0.050 |
| IND0603-82N | 0.082 | 50 | 10 | 245 | 0.300 | 0.050 |
| IND0603-R10 | 0.10 | 25 | 15 | 240 | 0.500 | 0.050 |
| IND0603-R12 | 0.12 | 25 | 15 | 205 | 0.500 | 0.050 |
| IND0603-R15 | 0.15 | 25 | 15 | 180 | 0.600 | 0.050 |
| IND0603-R18 | 0.18 | 25 | 15 | 165 | 0.600 | 0.050 |
| IND0603-R22 | 0.22 | 25 | 15 | 150 | 0.800 | 0.050 |
| IND0603-R27 | 0.27 | 25 | 15 | 136 | 0.800 | 0.050 |
| IND0603-R33 | 0.33 | 25 | 15 | 125 | 0.850 | 0.035 |
| IND0603-R39 | 0.39 | 25 | 15 | 110 | 1.000 | 0.035 |
| IND0603-R47 | 0.47 | 25 | 15 | 105 | 1.350 | 0.035 |
| IND0603-R56 | 0.56 | 25 | 15 | 95 | 1.550 | 0.035 |
| IND0603-R68 | 0.68 | 25 | 15 | 80 | 1.700 | 0.035 |
| IND0603-R82 | 0.82 | 25 | 15 | 75 | 2.100 | 0.035 |
| IND0603-1R0 | 1.00 | 10 | 35 | 70 | 0.600 | 0.025 |
| IND0603-1R2 | 1.20 | 10 | 35 | 60 | 0.800 | 0.025 |
| IND0603-1R5 | 1.50 | 10 | 35 | 55 | 0.800 | 0.025 |
| IND0603-1R8 | 1.80 | 10 | 35 | 50 | 0.950 | 0.025 |
| IND0603-2R2 | 2.20 | 10 | 35 | 45 | 1.150 | 0.015 |
| IND0603-2R7 | 2.70 | 10 | 35 | 40 | 1.350 | 0.015 |
| IND0603-3R3 | 3.30 | 10 | 35 | 38 | 1.550 | 0.015 |
| IND0603-3R9 | 3.90 | 10 | 35 | 36 | 1.700 | 0.015 |
| IND0603-4R7 | 4.70 | 10 | 35 | 33 | 2.100 | 0.015 |
| IND0603-5R6 | 5.60 | 4 | 35 | 22 | 1.550 | 0.005 |
| IND0603-6R8 | 6.80 | 4 | 35 | 20 | 1.700 | 0.005 |
| IND0603-8R2 | 8.20 | 4 | 35 | 18 | 2.100 | 0.005 |
| IND0603-100 | 10.00 | 2 | 35 | 17 | 2.550 | 0.005 |
| IND0603-120 | 12.00 | 2 | 35 | 15 | 2.750 | 0.005 |
| IND0603-150 | 15.00 | 1 | 20 | 14 | 1.700 | 0.001 |

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|---------------|---------------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND0603-180 | 18.00 | 1 | 20 | 13 | 1.850 | 0.001 |
| IND0603-220 | 22.00 | 1 | 20 | 11 | 2.100 | 0.001 |
| IND0603-270 | 27.00 | 1 | 20 | 10 | 2.750 | 0.001 |
| IND0603-330 | 33.00 | 1 | 20 | 9 | 2.950 | 0.001 |

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| ORDERING CORE | Inductance (μ H) | L、Q Test Frequencyz (MHz) | Q (Min) | SRF(MHz) MIN | RDC (MAX) (Ω) | Rated Current Max(A) |
|---------------|--------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND0805-47N | 0.047 | 50 | 15 | 320 | 0.200 | 0.300 |
| IND0805-56N | 0.056 | 50 | 20 | 300 | 0.200 | 0.300 |
| IND0805-68N | 0.068 | 50 | 15 | 280 | 0.200 | 0.300 |
| IND0805-82N | 0.082 | 50 | 15 | 255 | 0.200 | 0.300 |
| IND0805-R10 | 0.10 | 25 | 20 | 235 | 0.300 | 0.250 |
| IND0805-R12 | 0.12 | 25 | 20 | 220 | 0.300 | 0.250 |
| IND0805-R15 | 0.15 | 25 | 20 | 200 | 0.400 | 0.250 |
| IND0805-R18 | 0.18 | 25 | 20 | 185 | 0.400 | 0.250 |
| IND0805-R22 | 0.22 | 25 | 20 | 170 | 0.500 | 0.250 |
| IND0805-R27 | 0.27 | 25 | 20 | 150 | 0.500 | 0.250 |
| IND0805-R33 | 0.33 | 25 | 20 | 145 | 0.550 | 0.250 |
| IND0805-R39 | 0.39 | 25 | 25 | 135 | 0.650 | 0.200 |
| IND0805-R47 | 0.47 | 25 | 25 | 125 | 0.650 | 0.200 |
| IND0805-R56 | 0.56 | 25 | 25 | 115 | 0.750 | 0.150 |
| IND0805-R68 | 0.68 | 25 | 25 | 105 | 0.800 | 0.150 |
| IND0805-R82 | 0.82 | 25 | 25 | 100 | 1.000 | 0.150 |
| IND0805-1R0 | 1.00 | 10 | 45 | 75 | 0.400 | 0.050 |
| IND0805-1R2 | 1.20 | 10 | 45 | 65 | 0.500 | 0.050 |
| IND0805-1R5 | 1.50 | 10 | 45 | 60 | 0.500 | 0.050 |
| IND0805-1R8 | 1.80 | 10 | 45 | 55 | 0.600 | 0.050 |
| IND0805-2R2 | 2.20 | 10 | 45 | 50 | 0.650 | 0.030 |
| IND0805-2R7 | 2.70 | 10 | 45 | 45 | 0.750 | 0.030 |
| IND0805-3R3 | 3.30 | 10 | 45 | 41 | 0.800 | 0.030 |
| IND0805-3R9 | 3.90 | 10 | 45 | 38 | 0.900 | 0.030 |
| IND0805-4R7 | 4.70 | 10 | 45 | 35 | 1.000 | 0.030 |
| IND0805-5R6 | 5.60 | 4 | 45 | 32 | 0.900 | 0.015 |
| IND0805-6R8 | 6.80 | 4 | 50 | 29 | 1.000 | 0.015 |
| IND0805-8R2 | 8.20 | 4 | 50 | 26 | 1.100 | 0.015 |
| IND0805-100 | 10.00 | 2 | 50 | 24 | 1.150 | 0.015 |
| IND0805-120 | 12.00 | 2 | 50 | 22 | 1.250 | 0.015 |

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|---------------|---------------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND0805-150 | 15.00 | 1 | 30 | 19 | 0.800 | 0.005 |
| IND0805-180 | 18.00 | 1 | 30 | 18 | 0.900 | 0.005 |
| IND0805-220 | 22.00 | 1 | 30 | 16 | 1.100 | 0.005 |
| IND0805-270 | 27.00 | 1 | 30 | 14 | 1.150 | 0.005 |
| IND0805-330 | 33.00 | 1 | 30 | 13 | 1.250 | 0.004 |
| IND0805-390 | 39.00 | 2 | 30 | 8 | 2.900 | 0.004 |
| IND0805-470 | 47.00 | 2 | 30 | 7.5 | 3.000 | 0.004 |

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|---------------|---------------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND1206-47N | 0.047 | 50 | 20 | 320 | 0.150 | 0.300 |
| IND1206-68N | 0.068 | 50 | 20 | 280 | 0.250 | 0.300 |
| IND1206-82N | 0.082 | 50 | 20 | 255 | 0.250 | 0.250 |
| IND1206-R10 | 0.10 | 25 | 20 | 235 | 0.250 | 0.250 |
| IND1206-R12 | 0.12 | 25 | 20 | 220 | 0.300 | 0.250 |
| IND1206-R15 | 0.15 | 25 | 20 | 200 | 0.300 | 0.250 |
| IND1206-R18 | 0.18 | 25 | 20 | 185 | 0.400 | 0.250 |
| IND1206-R22 | 0.22 | 25 | 20 | 170 | 0.400 | 0.250 |
| IND1206-R27 | 0.27 | 25 | 20 | 150 | 0.500 | 0.250 |
| IND1206-R33 | 0.33 | 25 | 20 | 145 | 0.600 | 0.250 |
| IND1206-R39 | 0.39 | 25 | 25 | 135 | 0.500 | 0.200 |
| IND1206-R47 | 0.47 | 25 | 25 | 125 | 0.600 | 0.200 |
| IND1206-R56 | 0.56 | 25 | 25 | 112 | 0.700 | 0.150 |
| IND1206-R68 | 0.68 | 25 | 25 | 102 | 0.800 | 0.150 |
| IND1206-R82 | 0.82 | 25 | 25 | 100 | 0.900 | 0.150 |
| IND1206-1R0 | 1.00 | 10 | 45 | 75 | 0.400 | 0.100 |
| IND1206-1R2 | 1.20 | 10 | 45 | 65 | 0.500 | 0.100 |
| IND1206-1R5 | 1.50 | 10 | 45 | 60 | 0.500 | 0.050 |
| IND1206-1R8 | 1.80 | 10 | 45 | 55 | 0.500 | 0.050 |
| IND1206-2R2 | 2.20 | 10 | 45 | 50 | 0.600 | 0.050 |
| IND1206-2R7 | 2.70 | 10 | 45 | 45 | 0.600 | 0.050 |
| IND1206-3R3 | 3.30 | 10 | 45 | 41 | 0.700 | 0.050 |
| IND1206-3R9 | 3.90 | 10 | 45 | 38 | 0.800 | 0.050 |
| IND1206-4R7 | 4.70 | 10 | 45 | 35 | 0.900 | 0.050 |
| IND1206-5R6 | 5.60 | 4 | 50 | 32 | 0.700 | 0.025 |
| IND1206-6R8 | 6.80 | 4 | 50 | 29 | 0.800 | 0.025 |
| IND1206-8R2 | 8.20 | 4 | 50 | 26 | 0.900 | 0.025 |
| IND1206-100 | 10.00 | 2 | 50 | 24 | 1.000 | 0.025 |
| IND1206-120 | 12.00 | 2 | 50 | 22 | 1.050 | 0.015 |
| IND1206-150 | 15.00 | 1 | 35 | 19 | 0.700 | 0.005 |

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|---------------|---------------------------------|---------------------------------|------------|-----------------|---------------------------|-------------------------|
| IND1206-180 | 18.00 | 1 | 35 | 18 | 0.700 | 0.005 |
| IND1206-220 | 22.00 | 1 | 35 | 16 | 0.900 | 0.005 |
| IND1206-270 | 27.00 | 1 | 35 | 14 | 0.900 | 0.005 |
| IND1206-330 | 33.00 | 1 | 35 | 13 | 1.050 | 0.005 |
| IND1206-390 | 39.00 | 2 | 40 | 11 | 3.000 | 0.005 |
| IND1206-470 | 47.00 | 2 | 40 | 10 | 3.400 | 0.005 |
| IND1206-560 | 56.00 | 2 | 40 | 9.5 | 3.800 | 0.004 |
| IND1206-680 | 68.00 | 1 | 40 | 9.5 | 3.000 | 0.004 |
| IND1206-820 | 82.00 | 1 | 40 | 9.0 | 3.400 | 0.004 |
| IND1206-101 | 100.00 | 1 | 40 | 8.0 | 3.800 | 0.004 |
| IND1206-121 | 120.00 | 1 | 30 | 6.0 | 3.000 | 0.002 |