

查询843002JT4N7供

捷多邦 专业

MULTILAYER 应商 Ceramic Chip Inductor

8430 Series PCB打样工厂

FILTRAN

24小时加急出货

FEATURES

- High frequency
- High Q
- High IDC

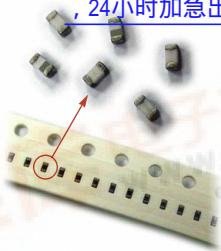
Available in 2 sizes:

0603 for 1.0 nH to 220 nH

0402 for 1.0 nH to 120 nH

APPLICATIONS

- High frequency circuits for portable telephone, PHS, wireless communication, etc.

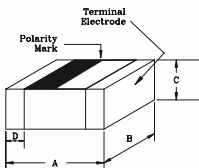


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MECHANICAL AND SCHEMATIC (All dimensions in millimeters)

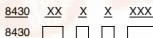


SCHEMATIC



| SIZE | Range (nH) | A | B | C | D |
|------|------------|----------|----------|----------|-----------|
| 0603 | 1.0 - 220 | 1.6±0.2 | 0.8±0.15 | 0.8±0.15 | 0.3±0.2 |
| 0402 | 1.0 - 120 | 1.0±0.15 | 0.5±0.15 | 0.5±0.15 | 0.25±0.15 |

PART NUMBERING



Inductance Code 4N7 = 4.7 nH
15N = 15 nH
R10 = 100 nH

Packaging Code T = Tape & Reel

Inductance Tolerance Code S = ±0.3 nH
J = ±5%
K = ±10%

Dimension Code 03 = 0603 (EIA)
02 = 0402 (EIA)

Part Number 8430 = Multilayer Chip Inductor



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ELECTRICAL SPECIFICATIONS @ 25°C

0603 Multilayer Chip Inductors

| Inductance (nH) | Tolerance | Q Min. | L/Q Test Frequency (MHz) | RDC (Ω MAX) | S.R.F. Typical (MHz) | IDC (mA MAX) |
|-----------------|-----------|--------|--------------------------|---------------------|----------------------|--------------|
| 1.0 | S | 8 | 100 | 0.10 | >17000 | 300 |
| 1.2 | S | 8 | 100 | 0.10 | >17000 | 300 |
| 1.5 | S | 8 | 100 | 0.10 | >17000 | 300 |
| 1.8 | S | 8 | 100 | 0.15 | 13000 | 300 |
| 2.2 | S | 8 | 100 | 0.15 | 12000 | 300 |
| 2.7 | S | 8 | 100 | 0.20 | 8600 | 300 |
| 3.3 | S, K | 8 | 100 | 0.25 | 6500 | 300 |
| 3.9 | S, K | 8 | 100 | 0.25 | 6300 | 300 |
| 4.7 | S, K | 8 | 100 | 0.30 | 5400 | 300 |
| 5.6 | S, K | 8 | 100 | 0.30 | 4600 | 300 |
| 6.8 | J, K | 8 | 100 | 0.35 | 4500 | 300 |
| 8.2 | J, K | 8 | 100 | 0.40 | 3800 | 300 |
| 10 | J, K | 8 | 100 | 0.45 | 3700 | 300 |
| 12 | J, K | 8 | 100 | 0.50 | 3200 | 300 |
| 15 | J, K | 8 | 100 | 0.55 | 2900 | 300 |
| 18 | J, K | 10 | 100 | 0.60 | 2100 | 300 |
| 22 | J, K | 10 | 100 | 0.65 | 2100 | 300 |
| 27 | J, K | 10 | 100 | 0.70 | 2000 | 300 |
| 33 | J, K | 10 | 100 | 0.80 | 1600 | 300 |
| 39 | J, K | 10 | 100 | 0.85 | 1500 | 300 |
| 47 | J, K | 12 | 100 | 1.00 | 1200 | 300 |
| 56 | J, K | 12 | 100 | 1.10 | 1100 | 300 |
| 68 | J, K | 12 | 100 | 1.20 | 1000 | 300 |
| 82 | J, K | 12 | 100 | 1.80 | 850 | 300 |
| 100 | J, K | 12 | 100 | 2.00 | 750 | 300 |
| 120 | J, K | 8 | 50 | 2.30 | 700 | 300 |
| 150 | J, K | 8 | 50 | 2.40 | 650 | 300 |
| 180 | J, K | 8 | 50 | 2.70 | 550 | 300 |
| 220 | J, K | 8 | 50 | 2.80 | 450 | 300 |

ELECTRICAL SPECIFICATIONS @ 25°C

0402 Multilayer Chip Inductors

| Inductance (nH) | Tolerance | Q Min. | L/Q Test Frequency (MHz) | RDC (Ω MAX) | S.R.F. Typical (MHz) | IDC (mA MAX) |
|-----------------|-----------|--------|--------------------------|---------------------|----------------------|--------------|
| 1.0 | S | 8 | 100 | 0.12 | >15000 | 300 |
| 1.2 | S | 8 | 100 | 0.12 | >15000 | 300 |
| 1.5 | S | 8 | 100 | 0.13 | >15000 | 300 |
| 1.8 | S | 8 | 100 | 0.14 | 14000 | 300 |
| 2.2 | S | 8 | 100 | 0.16 | 12000 | 300 |
| 2.7 | S | 8 | 100 | 0.17 | 9500 | 300 |
| 3.3 | S, K | 8 | 100 | 0.19 | 8500 | 300 |
| 3.9 | S, K | 8 | 100 | 0.22 | 7000 | 300 |
| 4.7 | S, K | 8 | 100 | 0.24 | 6000 | 300 |
| 5.6 | S, K | 8 | 100 | 0.27 | 5400 | 300 |
| 6.8 | J, K | 8 | 100 | 0.32 | 5000 | 250 |
| 8.2 | J, K | 8 | 100 | 0.40 | 4600 | 250 |
| 10 | J, K | 8 | 100 | 0.45 | 3700 | 250 |
| 12 | J, K | 8 | 100 | 0.50 | 3200 | 250 |
| 15 | J, K | 8 | 100 | 0.60 | 3100 | 250 |
| 18 | J, K | 8 | 100 | 0.65 | 2900 | 200 |
| 22 | J, K | 8 | 100 | 0.80 | 2100 | 200 |
| 27 | J, K | 8 | 100 | 0.90 | 1900 | 200 |
| 33 | J, K | 8 | 100 | 1.00 | 1600 | 200 |
| 39 | J, K | 8 | 100 | 1.20 | 1400 | 150 |
| 47 | J, K | 8 | 100 | 1.30 | 1200 | 150 |
| 56 | J, K | 8 | 100 | 2.00 | 1100 | 150 |
| 68 | J, K | 8 | 100 | 2.20 | 1000 | 100 |
| 82 | J, K | 8 | 100 | 2.50 | 900 | 100 |
| 100 | J, K | 8 | 100 | 2.50 | 850 | 100 |
| 120 | J, K | 8 | 50 | 2.50 | 750 | 100 |

ENVIRONMENTAL CHARACTERISTICS

| Item | Specification | Test Methods |
|--------------------------------|--|---|
| 1 Bending Strength | Appearance: No damage | Test device shall be soldered on the substrate Substrate Dimension: 95x23x1.5mm Deflection: 2.0mm Keeping Time: 30sec |
| 2 Resistance to Soldering Heat | Appearance: No damage L change: within±10% Q change: within±20% | Pre-heating: 120±20 °C, 1min Solder Temperature: 260±10 °C Immersion Time: 3±1sec Measured after exposure in the room condition for 24hrs |
| 3 Solderability | The electrodes shall be at least 75% covered with new solder coating L change: within±10% Q change: within±20% | Pre-heating: 120±20 °C, 1min Solder Temperature: 230±10 °C Immersion Time: 3±1sec |
| 4 Temperature Cycle | | One Cycle: One cycle/step 1: 100±5 °C for 30±1min step 2: -40±3 °C for 30±1min Total: 100cycles Measured after exposure in the room condition for 24hrs |
| 5 Humidity Resistance | | Temperature: 40±2 °C Relative Humidity: 90-95% Time: 1000hrs Measured after exposure in the room condition for 24hrs |
| 6 Heat Life | | Temperature: 85±2 °C Applied Current: Rated Current Time: 1000hrs Measured after exposure in the room condition for 24hrs |
| 7 Cold Resistance | | Temperature: -40±5 °C Time: 1000hrs Measured after exposure in the room condition for 24hrs |

PACKAGING

Packaging Quantity

Unit: pcs

| Series | Packaging | pcs/wheel |
|---------|-----------|-----------|
| 8430-03 | | 4,000 |
| 8430-02 | | 10,000 |

Reel Dimensions

Unit: mm

| Series | A | B | C | D |
|---------|-----|----|----|-----|
| 8430-03 | 178 | 60 | 12 | 1.5 |
| 8430-02 | 178 | 60 | 12 | 1.5 |

Emboss Plastic Tape Specifications

Unit: mm

| Series | A | B | K ₀ | W | P | F | K |
|---------|------|------|----------------|---|---|-----|------|
| 8430-03 | 1.1 | 1.9 | 0.95 | 8 | 4 | 3.5 | 0.95 |
| 8430-02 | 0.65 | 1.15 | 0.6 | 8 | 2 | 3.5 | 0.6 |

