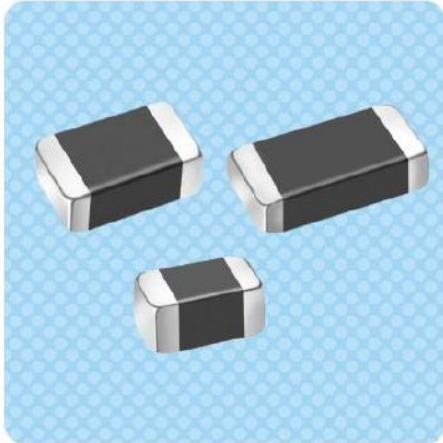


PI Series High Current Ferrite Inductors



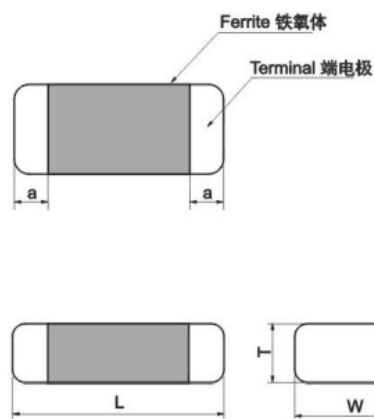
FEATURES

- Monolithic Structure for high reliability.
- Small size inductor.
- No cross coupling due to magnetic shield.
- Low DC resistance
- Offset current greatly increased.

APPLICATIONS

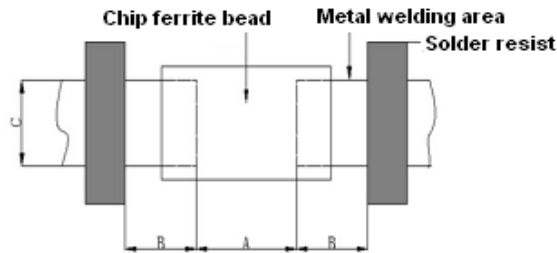
- Widely used in choke circuit of the DC power line of intelligence broadband, automotive electronics, communications equipment, consumer electronics, office automation and other electronic equip.

SHAPE AND DIMENSIONS



| Part Number | Dimensions (mm) | | | |
|-------------|-----------------|----------|----------|---------|
| | L | W | T | a |
| PI1608 | 1.6±0.15 | 0.8±0.15 | 0.8±0.15 | 0.3±0.2 |
| PI2012 | 2.0±0.2 | 1.2±0.2 | 0.9±0.2 | 0.5±0.3 |
| PI2016 | 2.0±0.2 | 1.6±0.15 | 0.9±0.2 | 0.5±0.3 |
| PI2520 | 2.5±0.2 | 2.0±0.2 | 0.9±0.2 | 0.5±0.3 |
| PI3216 | 3.2±0.2 | 1.6±0.2 | 0.9±0.2 | 0.5±0.3 |

RECOMMENDED PC BOARD PATTERN



| Part Number | Dimensions (mm) | | |
|-------------|-----------------|-----|-----|
| | A | B | C |
| PI1608 | 0.6 | 1.0 | 0.8 |
| PI2012 | 1.0 | 1.0 | 1.0 |
| PI2016 | 1.0 | 1.0 | 1.0 |
| PI2520 | 1.5 | 1.0 | 1.2 |
| PI3216 | 2.2 | 1.1 | 1.4 |

PRODUCT IDENTIFICATION

PI 2012 F 1R0 M T (f)

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series name
- ② Dimensions L×W
1608: 1.6mm of length, 0.8mm of width.
- ③ Performance code
- ④ Inductance: R10-0.1uH 1R0-1.0uH
- ⑤ Tolerance: K: ±10% M: ±20% N: ±30%
- ⑥ Package: B:by bulk T: Tape and Reel
- ⑦ Pb Free

SPECIFICATIONS

● PI1608TYPE

| Part Number | Inductance (uH) | Tolerance | L、Q Test condition (MHz/V) | SRF _{min} (MHz) | DCR Max(Ω) | Rated Current Max (mA) |
|-------------|-----------------|-----------|----------------------------|--------------------------|------------|------------------------|
| PI1608FR22 | 0.22 | M | 1/0.05 | 150 | 0.06±30% | 380 |
| PI1608FR33 | 0.33 | | | 120 | 0.08±30% | 350 |
| PI1608FR47 | 0.47 | | | 105 | 0.1±30% | 300 |
| PI1608FR68 | 0.82 | | | 85 | 0.16±30% | 220 |
| PI1608FR82 | 0.82 | | | 85 | 0.18±30% | 220 |
| PI1608F1R0 | 1.0 | | | 75 | 0.2±30% | 200 |
| PI1608F1R5 | 1.8 | | | 55 | 0.25±30% | 180 |
| PI1608F1R8 | 1.8 | | | 55 | 0.3±30% | 180 |
| PI1608F2R2 | 2.2 | | | 50 | 0.50±30% | 150 |
| PI1608F4R7 | 4.7 | | | 33 | 0.75±30% | 80 |

● PI2012 TYPE

| Part Number | Inductance (uH) | Tolerance Q _{min} | L、Q Test condition (MHz/V) | SRF _{min} (MHz) | DCR Max(Ω) | Rated Current Max (mA) |
|-------------|-----------------|----------------------------|----------------------------|--------------------------|------------|------------------------|
| PI2012FR10 | 0.10 | M | 1/0.05 | 210 | 0.14±25% | 1100 |
| PI2012FR47 | 0.47 | | | 100 | 0.15±25% | 1100 |
| PI2012F1R0 | 1.0 | | | 90 | 0.16±25% | 800 |
| PI2012F1R5 | 1.5 | | | 70 | 0.22±25% | 700 |
| PI2012F2R2 | 2.2 | | | 50 | 0.25±25% | 600 |
| PI2012F3R3 | 3.3 | | | 40 | 0.22±25% | 500 |
| PI2012F4R7 | 4.7 | | | 30 | 0.30±30% | 500 |
| PI2012F6R8 | 6.8 | | | 29 | 0.50±30% | 250 |
| PI2012F8R2 | 8.2 | | | 26 | 0.56 | 250 |
| PI2012F100 | 10.0 | | | 24 | 0.56 | 250 |
| PI2012F120 | 12.0 | | | 22 | 0.56 | 250 |
| PI2012F150 | 15.0 | | | 19 | 0.65 | 100 |



Specifications subject to change without notice. Please check our website for latest information.

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● PI2016 TYPE

| Part Number | Inductance (uH) | Tolerance Q _{min} | L、Q Test condition (MHz/V) | SRF _{min} (MHz) | DCR Max(Ω) | Rated Current Max (mA) |
|-------------|-----------------|----------------------------|----------------------------|--------------------------|------------|------------------------|
| PI2016FR47 | 0.47 | M | 1/0.05 | 100 | 0.14±25% | 1500 |
| PI2016FR68 | 0.68 | | | 90 | 0.15±25% | 1500 |
| PI2016F1R0 | 1.0 | | | 60 | 0.16±25% | 1400 |
| PI2016F1R5 | 1.5 | | | 50 | 0.20±25% | 1200 |
| PI2016F2R2 | 2.2 | | | 40 | 0.22±25% | 1200 |
| PI2016F3R3 | 3.3 | | | 30 | 0.24±25% | 1100 |
| PI2016F4R7 | 4.7 | | | 20 | 0.30±30% | 1100 |

● PI2520 TYPE

| Part Number | Inductance (uH) | Tolerance Q _{min} | L、Q Test condition (MHz/V) | SRF _{min} (MHz) | DCR Max(Ω) | Rated Current Max (mA) |
|-------------|-----------------|----------------------------|----------------------------|--------------------------|------------|------------------------|
| PI2520FR47 | 0.47 | M | 1/0.05 | 100 | 0.07±25% | 1800 |
| PI2520FR68 | 0.68 | | | 90 | 0.09±25% | 1700 |
| PI2520F1R0 | 1.0 | | | 60 | 0.11±25% | 1600 |
| PI2520F1R5 | 1.5 | | | 50 | 0.13±25% | 1500 |
| PI2520F2R2 | 2.2 | | | 40 | 0.17±25% | 1300 |
| PI2520F3R3 | 3.3 | | | 30 | 0.18±25% | 1200 |
| PI2520F4R7 | 4.7 | | | 25 | 0.20±30% | 1100 |

● PI3216TYPE

| Part Number | Inductance (uH) | Tolerance Q _{min} | L、Q Test condition (MHz/V) | SRF _{min} (MHz) | DCR Max(Ω) | Rated Current Max (mA) |
|-------------|-----------------|----------------------------|----------------------------|--------------------------|------------|------------------------|
| PI3216F1R0 | 1.0 | M | 1/0.05 | 60 | 0.15±25% | 1200 |
| PI3216F1R5 | 1.5 | | | 60 | 0.17±25% | 1000 |
| PI3216F2R2 | 2.2 | | | 50 | 0.24±25% | 900 |
| PI3216F3R3 | 3.3 | | | 45 | 0.30±25% | 800 |
| PI3216F4R7 | 4.7 | | | 41 | 0.30±25% | 800 |
| PI3216F6R8 | 6.8 | | | 35 | 0.38±25% | 700 |
| PI3216F8R2 | 8.2 | | | 32 | 0.42±25% | 500 |

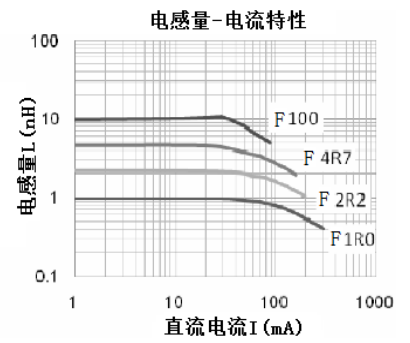
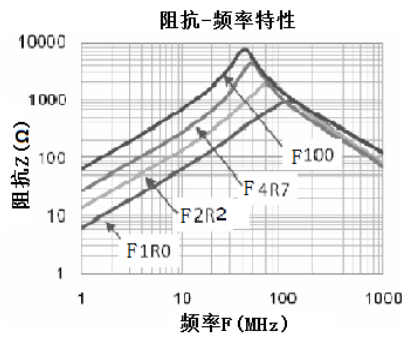
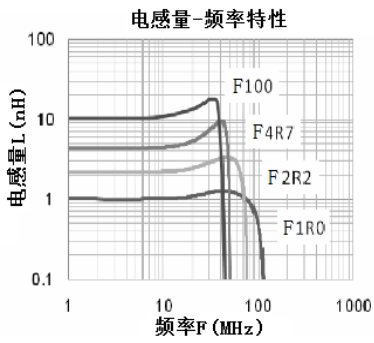


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| Part Number | Inductance (uH) | Tolerance Q _{min} | L、Q Test condition (MHz/V) | SRF _{min} (MHz) | DCR Max(Ω) | Rated Current Max (mA) |
|-------------|-----------------|----------------------------|----------------------------|--------------------------|------------|------------------------|
| PI3216F100 | 10.0 | M | 1/0.05 | 29 | 0.45±25% | 500 |
| PI3216F120 | 12.0 | | | 26 | 0.55±25% | 300 |
| PI3216F150 | 15.0 | | | 24 | 0.55±25% | 300 |
| PI3216F220 | 22.0 | | | 19 | 0.65±25% | 100 |

● PI1608



● PI2012

