

Saturating Chokes



- Rated currents from 1.5 to 25A
- Up to 500VAC operating voltage
- DC to 1kHz frequency
- Single or dual-choke configurations

Approvals

ROHS

Technical specifications

| | |
|--------------------------------------------|----------------------------------|
| and/or winding-to-inserts: | 2500V, 50Hz, 2 sec, factory test |
| Flammability corresponding to: | UL 94V-0 |
| High potential test voltage: | |
| Maximum continuous operating voltage: | 500VAC @ 40°C |
| MTBF @ 40°C/230V (Mil-HB-217F): | > 5,000,000 hours |
| Operating frequency: | |
| Rated currents: | 1.5 to 25 A @ 40°C max. |
| Surge current @ 10msec: | 20 x Inominal @ 25°C |
| Temperature range (operation and storage): | -25°C to +110°C (25/110/21) |
| winding-to-winding @ 25°C: | 2500VAC, 60 sec, guaranteed |

Typical electrical schematic



RI saturating type chokes change impedance at the moment of switching, and can be used to attenuate differential-mode noise or symmetrical interference as generated in fast switching high current applications. These chokes are typically used in conjunction with suppression capacitors. For optimum attenuation chokes must be connected as close as possible to the semiconductor switching device.



Features and benefits

- Excellent thermal behavior.
- Through hole or wire connections.
- Single or dual-choke configurations.
- Up to 25A single configuration.
- Custom-specific versions are available on request.

Typical applications

- Suppressing high interference levels generated by fast switching circuits
- DC voltage smoothing
- EMC/EMI filters
- Phase angle control circuits
- Power supplies
- Chargers

Choke selection table

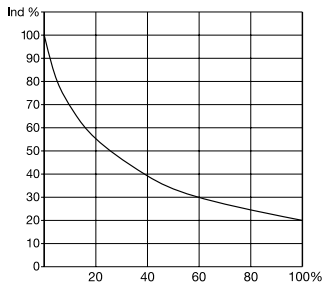
| Choke | Nominal current @ 40°C | Resistance R | Choke configuration | Input/Output connections | | Weight |
|-----------|---------------------------|-----------------|------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------|
| | [A] | [mΩ/path] | [Qty] |  |  | [g] |
| RI 111 PC | 6 | 42 | 2 | 02 | | 170 |
| RI 401 PC | 1.5 | 620 | 1 | 02 | | 15 |
| RI 403 PC | 3 | 105 | 1 | 02 | | 30 |
| RI 406 PC | 6 | 53 | 1 | 02 | | 55 |
| RI 410 PC | 10 | 28 | 1 | 02 | | 95 |
| RI 415 | 15 | 8 | 1 | | 07 | 205 |
| RI 425 | 25 | 4 | 1 | | 07 | 325 |

Test conditions:
 Resistance tolerance: max. ±15% @ 25°C; < 200mΩ, 100mA; > 200mΩ ≤ 2Ω, 10mA
 Electrical characteristics @ 25°C: ±2°C

Typical saturation characteristics

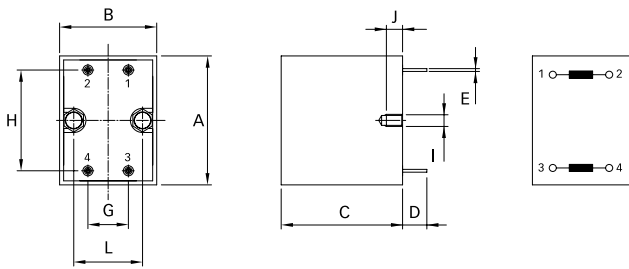
Inductance (typical value in %) vs. nominal current in %

RI series

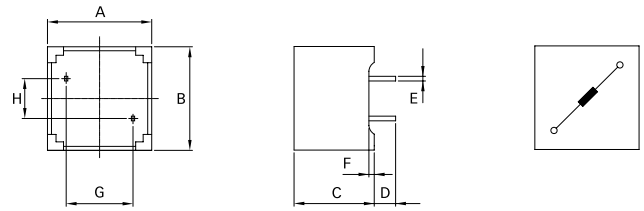


Mechanical data

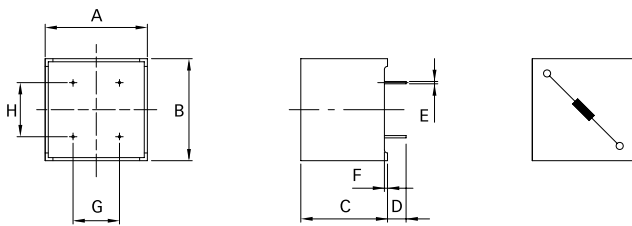
RI 111



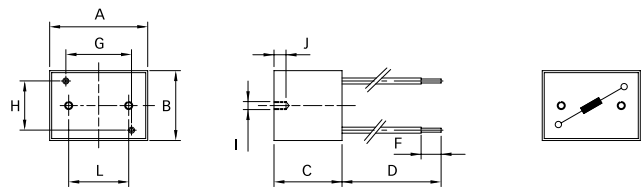
RI 401, RI 403, RI 406



RI 410



RI 415, RI 425



Dimensions

| | RI 111 | RI 401 | RI 403 | RI 406 | RI 410 | RI 415 | RI 425 | Tolerances |
|----------|--------|------------|--------|------------|------------|--------|--------|------------|
| A | 49 | 19.5 | 23.3 | 28.5 | 33 | 35 | 48 | |
| B | 35 | 19.5 | 23.3 | 28.5 | 33 | 49 | 48 | |
| C | 34 | 15 | 18 | 21.5 | 28 | 34 | 43 | ±0.3 |
| D | 15 | 4 | 6 | 4.5 | 6 | 200 | 200 | |
| E | ∅1.15 | 0.6 x 0.88 | ∅0.9 | 0.6 x 0.88 | 0.75 x 1.1 | | | ±0.1 |
| F | | 1 | | | 1 | 10 | 10 | |
| G | 20 | 12.5 | 15 | 20 | 17.5 | 22 | 39 | |
| H | 40 | 7.5 | 10 | 10 | 15 | 36 | 35 | |
| I | M4 | | | | | M4 | M4 | |
| J | 6 | | | | | 6 | 6 | +0/-0.5 |
| L | 21 | | | | | 30 | 30 | ±0.25 |

All dimensions in mm; 1 inch = 25.4mm
Tolerances according: ISO 2768-m / EN 22768-m

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