

Saturating chokes

- 1.5 to 25A ratings
- Single or dual choke configurations
- Flying lead or PCB-mount versions
- Nennströme zwischen 1.5 und 25A
- Einfach- oder Doppel-Wicklungskonfigurationen
- Versionen für Leiterplattenmontage oder mit Anschlußdrähten
- Courant de service entre 1.5 et 25A
- Configurations avec un ou deux enroulements
- Boîtiers pour montage sur carte électronique ou connexions par fils

RI Series



Choke selection table Choose the choke **RI xxx** offering the required current rating and component configuration. Types with the letters PC in the name have pins for PCB mounting; others have flying lead wire connections.

Choke type	Nominal current A@40°C	Circuit symbol	R [†] mΩ/path	Weight approx. g
RI 109 PC	2		280	65
RI 110 PC	3		148	120
RI 111 PC	6		42	170

Choke type	Nominal current A@40°C	Circuit symbol	R [†] mΩ	Weight approx. g
RI 401 PC	1.5		620	15
RI 403 PC	3		105	30
RI 406 PC	6		53	55
RI 410 PC	10		28	95
RI 415	15		8	205
RI 425	25		3.5	325

Environmental ratings

Maximum operating voltage: 500V at 40°C
 High potential test voltage winding-to-winding at 25°C and/or winding-to-inserts: 2500VAC, 1 minute, guaranteed 2500V, 50Hz, 2 sec, factory test
 Surge current at 10msec: 20 x I_{nominal} at 25°C
 Power operating frequency: DC to 1kHz at 40°C
 Operating temperature: -25°C to +110°C
 Storage temperature: -25°C to +110°C
 Climatic class per IEC 68: 25/110/21
 Flammability: UL94V0

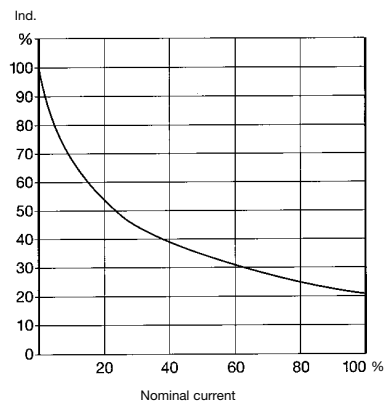
Test conditions

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

Typical saturation characteristics

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

RI series typical



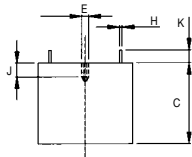
Mechanical data PCB Mounting

Choke	RI 109	RI 110	RI 111	RI 401	RI 403	RI 406	RI 410	Tol.* mm
A	32	40	49	19.5 ^{+0.55} ₋₀	23.3	28.5	33	± 0.3
B	24	30	35	19.5 ^{+0.55} ₋₀	23.3	28.5	33	± 0.3
C	30	35	34	15±0.3	18	21.5	28	± 0.3
D	17	18	21					± 0.25
E	M3		M4					-
F	25	30	40	12.5	15	20	17.5	± 0.2
G	10	12.5	20	7.5	10		15	± 0.2
H	0.6 x 0.88		Ø 1.15	0.6 x 0.88	Ø 0.9	0.6 x 0.88	0.75 x 1.1	± 0.1
J	4		6					±0.5
K	~6.5	~5.5	~15	~4	~6	~4.5	~6	-

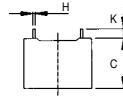
Dimensions in mm; 1 inch = 25.4mm

* Measurements share this common tolerance unless otherwise stated

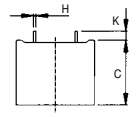
Side



RI 109, 110, 111

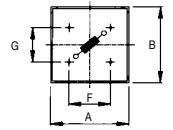
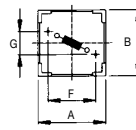
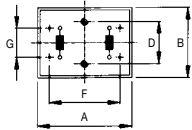


RI 401, 403, 406



RI 410

Bottom



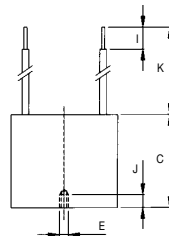
Flying lead types

Choke	RI 415	RI 425	Tol.* mm
A	35 ^{+0.5} ₋₀	48 ^{+0.3} _{-0.2}	-
B	49 ^{+0.5} ₋₀	48	±0.3
C	34	43	± 0.3
D		30	± 0.25
E		M4	-
F	~22	~39	-
G	~36	~35	-
I		10	± 1
J		6	±0.5
K		200	± 10

Dimensions in mm; 1 inch = 25.4mm

* Measurements share this common tolerance unless otherwise stated

Side



RI 415, 425

Bottom

