

Rod-cored chokes

RF Series

- 2 to 150A ratings (higher currents on request)
- 0.1mH to 3.8mH inductances
- fast-on or PCB-mount versions
- Nennströme zwischen 2 und 150A (höhere Ströme auf Anfrage)
- Induktivitäten von 0.1mH bis 3.8mH
- Versionen mit Steckkontakten und für Leiterplattenmontage
- courant de service entre 2 et 150A (plus élevé à la demande)
- inductance de 0,1mH à 3.8mH
- versions Fast-on ou pour montage sur carte électronique



 (RF 211)

Choke selection table

Choke type	Nominal current A @ 40°C	Inductance L* mH	Circuit symbol	R [†] mΩ	Weight approx. g
RF 51-4	4	2.4 (2)		310	250
RF 61-16	16	1.2 (1.2)		40	1300
RF 71-35	35	0.58 (0.35)		12	2720
RF 71-75	75	0.1 (0.06)		2	2800
RF 81-75	75	0.42 (0.3)		3.7	9060
RF 81-150	150	0.1 (0.08)		0.95	9400
RF 101-150	150	0.28 (0.22)		2.25	22000

Test conditions

* Measuring frequency: 1kHz; 500μA > 0.16mH < 1.6mH;
50μA > 1.6mH < 160mH; inductance tolerance +50%, -30%
(values in brackets according to VDE 0565-2)
† Resistance: tolerance max. ±15% at 25°C; < 200mΩ 100mA;
> 200mΩ ≤ 2Ω 10mA; > 2Ω ≤ 20Ω 1mA
Electrical characteristics at 25°C ± 2°C

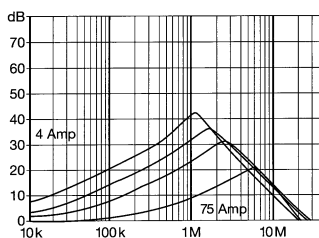
Choke type	Nominal current A @ 40°C	Inductance L* mH	Circuit symbol	R [†] mΩ	Weight approx. g
RF 211-6/02	6	0.39 (0.33)		100	75
RF 211-10/02	10	0.15 (0.1)		42	70
RF 211-2/14	2	3.8 (3.3)		820	74
RF 211-4/14	4	0.92 (0.68)		202	74
RF 211-6/14	6	0.39 (0.33)		90	76
RF 211-10/14	10	0.15 (0.1)		33	73

Environmental ratings

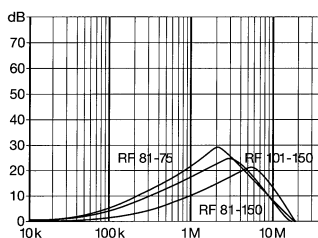
Maximum operating voltage: 380/500V at 40°C
High potential test voltage
RF 211
winding-to-rod core at 25°C: 2500VAC, 1 minute, guaranteed
2500V, 50Hz, 2 sec, factory test
RF 51 - RF 101
winding-to-inserts at 25°C: 3000VAC, 1 minute, guaranteed
3000V, 50Hz, 2 sec, factory test
Surge current at 10msec: 20 x I_{nominal} at 25°C
Power operating frequency: DC to 1kHz at 40°C
Operating/storage temp:
RF 211 -40°C to +110°C
RF 51 - RF 101 -25°C to +110°C
Climatic class per IEC 68:
RF 211 40/110/21
RF 51 - RF 101 25/110/21

Typical attenuation/resonance frequency characteristics

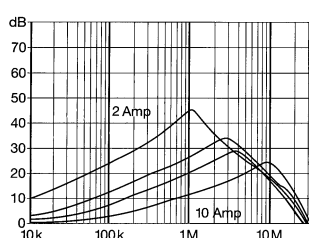
RF 51/61/71



RF 81/101



RF 211



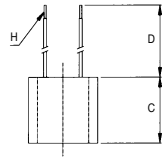
Mechanical data

Choke	RF 51	RF 61	RF 71	RF 81	RF 101	Tol.* mm
A	75 ± 0.5	145	191.5 ± 1	270 ± 10	425 ± 2	+0.2 -0
B	35	50	61 ± 0.5	90	130 ± 2	± 0.3
C	34	55	65 ± 0.5	95 ± 3	130 ⁺¹⁰ ₋₁₀	± 0.3
D	100 ⁺¹⁰ ₋₁₀	15 ± 2		45	60	± 3
E	66	131	177.5	226	140	± 0.25
F	26	37	47 ± 0.5	60	90	± 0.25
G	Ø4.2	Ø6.5		M6	M8	± 0.1
H	Ø1.06					-
I		≥5				± 0.3
K				9	15	⁺¹⁰ ₋₁₀

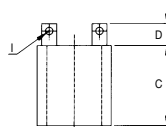
Dimensions in mm; 1 inch = 25.4mm

* Measurements share this common tolerance unless otherwise stated

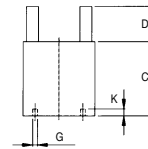
SIDE



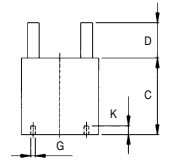
RF 51



RF 61, 71

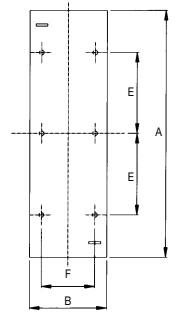
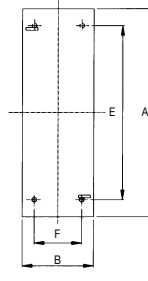
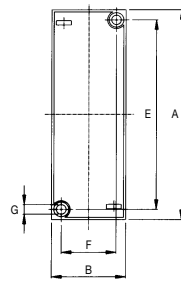
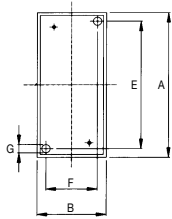


RF 81



RF 101

BOTTOM

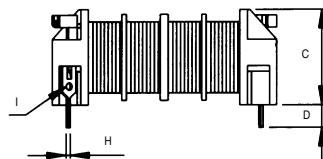


Choke	RF 211 -xx/02	RF 211 -xx/14	Tol.* mm
A	58		± 0.3
B	23		± 0.2
C	25.5		± 0.3
D	6	6.5	± 0.5
E	51		± 0.15
G	3.6		+0.2 -0
H	0.8		± 0.1
I	Ø2		± 0.1
K		17.5	± 0.2
L	7.2		± 0.1

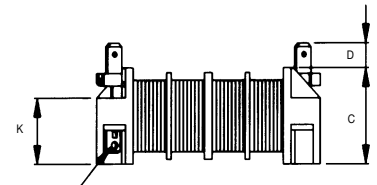
Dimensions in mm; 1 inch = 25.4mm

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SIDE

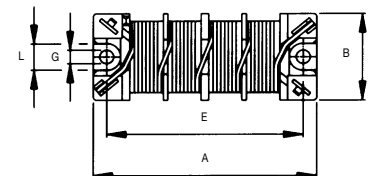
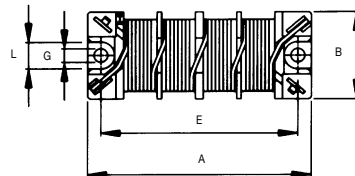


RF 211-xx/02



RF 211-xx/14

BOTTOM



DRILLINGS FOR PCB MOUNTING

