



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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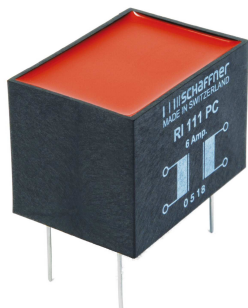
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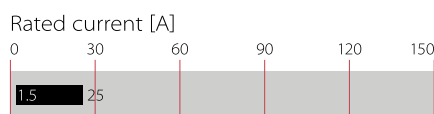
Saturating Chokes



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



Performance indicators



Technical specifications

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

Approvals

ROHS

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 25 A 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

Typical electrical schematic



Choke selection table

Choke	Nominal current @ 40°C	Resistance R	Choke configuration	Input/Output connections		Weight
				[A]	[mΩ/path]	
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:

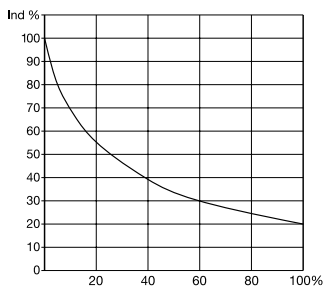
Resistance tolerance: $\pm 15\%$ @ 25°C

Electrical characteristics @ 25°C: $\pm 2\%$

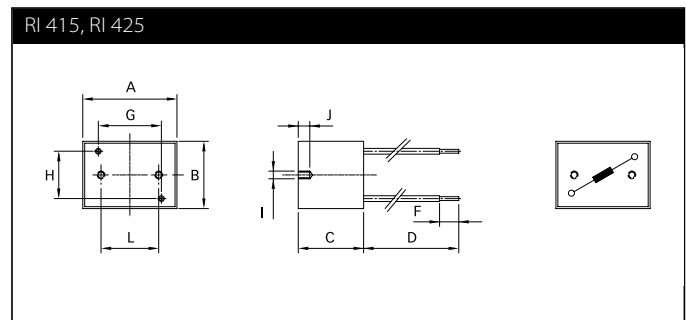
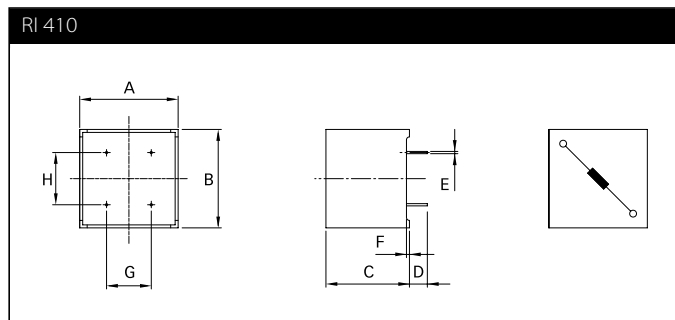
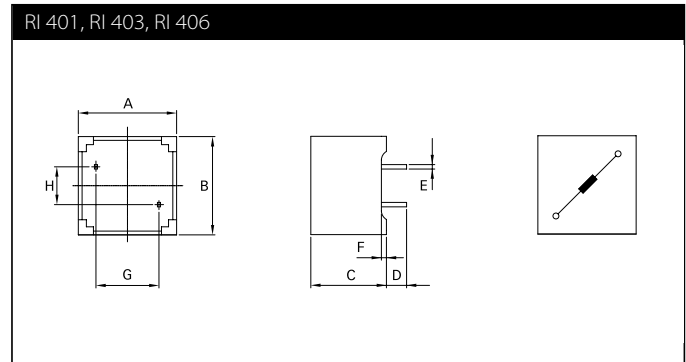
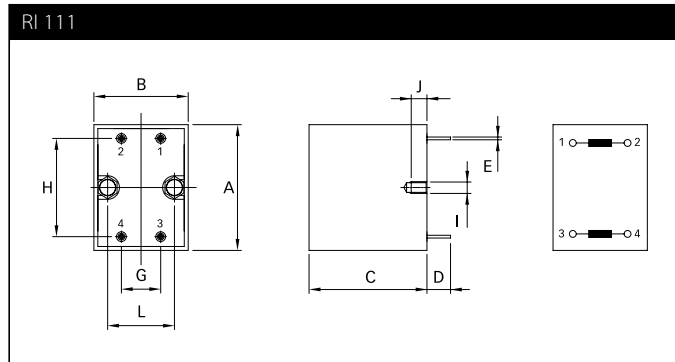
Typical saturation characteristics

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

RI series



Mechanical data



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 ±0.5	6 ±0.5	4.5 ±0.5	6 ±0.5	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 = 25.4 mm
Tolerances according: ISO 2768-m/EN 22768-m

Please visit www.schaffner.com to find more details on filter connections.



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