

K Series

2-Stage High Performance General Purpose Filters



(3-100A)

Typical application

- For digital systems (particularly for switching power supplies) to suppress continuous or intermittent pulse interference

Features and benefits

- High performance filters
- Both common and differential mode with good interference suppression

Conformity

- CE EN 60939
- CSA C22,2 | available on request for most types
- UL 1283 | available on request for most types
- Climatic category 25/085/21 (IEC 60068-1)

Technical specifications

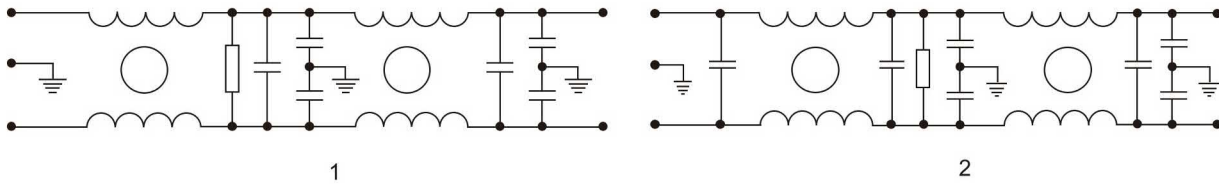
	Symbol	Value	Unit	Remarks
Rated voltage	V_R	250	VAC	
Rated current	I_R	3 ... 100	A	
Ground capacitance		9.4 ... 40	nF	
Operating frequency	f_{op}	50/60	Hz	
Insertion loss		up to 70/80	dB	common/dfferential mode
Leakage current	I_l	1.5 ... 5	mA	
Operating temperature	T_{amb}	-25 ... +85	°C	
Storage temperature	T_S	-25 ... +85	°C	
Test voltage - line to line	V_{test}	1500	VDC	
Test voltage - line to ground	V_{test}	1500	VAC	

Electrical properties

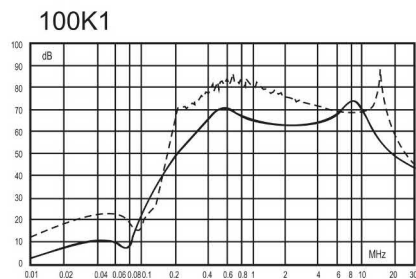
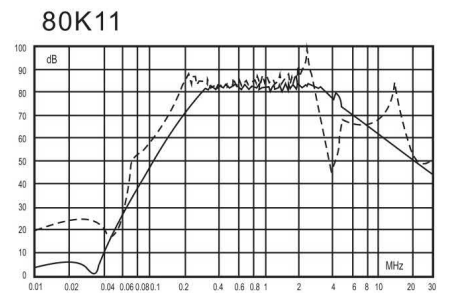
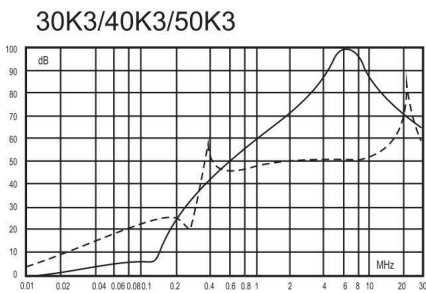
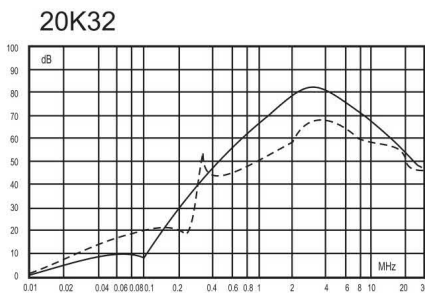
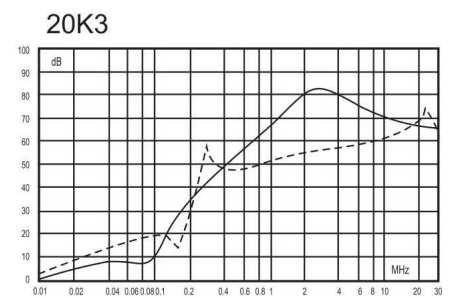
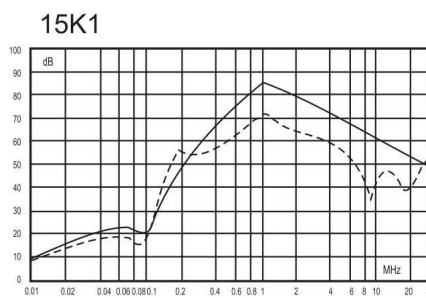
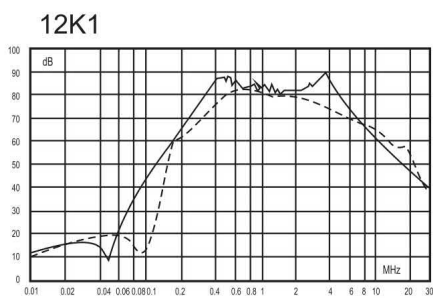
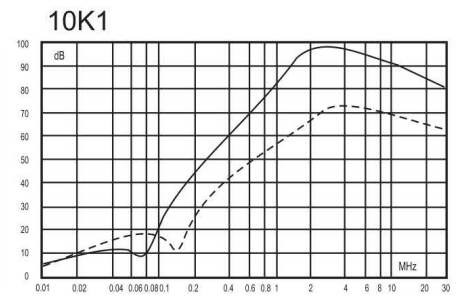
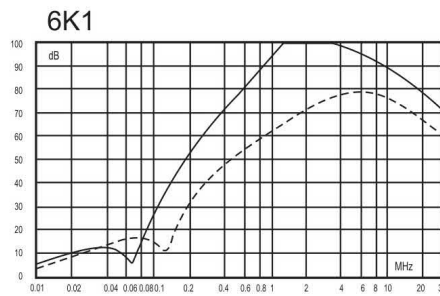
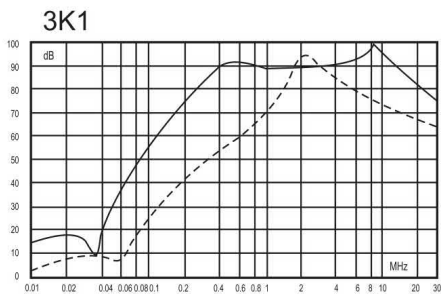
Model	Connection		Rated Current [A]	Ground Capacitance [nF]	Leakage Current [mA]	Discharge Resistance [MΩ]	Circuit Diagram	Package Type	Size [LxBxH] [mm]
	Line	Load							
DL-3K1	F	F	3	9.4	1.5	1.5	1	A	89.5x50.5x28
DL-6K1	F	F	6	9.4	1.5	1.5	1	A	89.5x50.5x28
DL-10K1	F	F	10	9.4	1.5	1.5	1	A	89.5x50.5x28
DL-12K1	F	F	12	9.4	1.5	1.0	2	A	103x57x45
DL-15K1	S	S	15	13.3	1.5	1.5	1	G	max. 192x58x70
DL-20K3	S	S	20	9.4	1.5	1.5	1	E	max. 138x95.3x84
DL-30K3	S	S	30	9.4	1.5	1.5	1	E	max. 138x95.3x84
DL-40K3	S	S	40	9.4	1.5	1.5	1	E	max. 161x95.3x84
DL-50K3	S	S	50	9.4	1.5	1.5	1	E	max. 161x95.3x84
DL-80K3	S	S	80	40	5	0.68	2	G	282x96x125
DL-100K1	S	S	100	40	5	0.68	2	G	282x96x125

Legend: F = FASTON 6.3 S = screw terminal

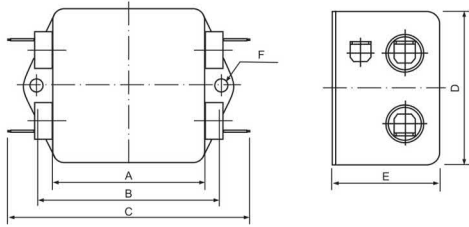
Circuit schematic



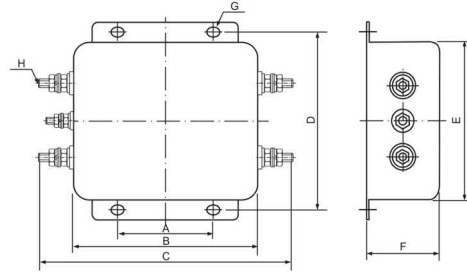
Insertion loss characteristics



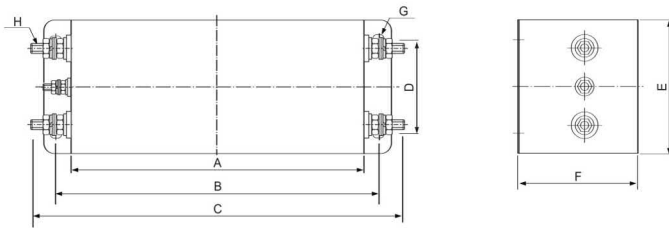
Mechanical packaging



A...



E...



G...

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