

High Performance K Series RFI Line Filters for SMPS Emission Control

SK Series

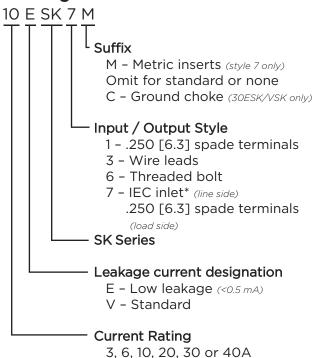


UL Recognized CSA Certified VDE Approved

SK Series

- Designed to reduce conducted noise to acceptable limits for equipment that must comply with FCC / EN specifications
- Utilizes significantly higher element values than the general purpose K Series which makes them better suited for equipment with Line to Ground and Line to Line conducted emissions including those with switching power supplies
- ESK6C and VSK6C incorporate separate ground circuit inductor to isolate the equipment chassis from power line ground at RF frequencies

Ordering Information





Specifications

Maximum leakage current each Line to Ground:

<u>3, 6 & 10A</u>	VSK Models	ESK Models
@120 VAC 60 Hz:	.4 mA	.21 mA
@250 VAC 50 Hz:	.7 mA	.36 mA
20, 30 & 40A		
@120 VAC 60 Hz:	.75 mA	.3 mA
@250 VAC 50 Hz:	1.25 mA	.5 mA
Hipot rating (one minute	e):	
Line to Ground:		2250 VDC
Line to Line:		1450 VDC
Rated Voltage (max):		250 VAC
Operating Frequency:		50/60 Hz
Rated Current:		3 to 40A
Operating Ambient Tem	perature Range	
(at rated current Ir):	-10	0°C to +40°C
In an ambient temper	raturo (T.) biabo	r than +40°C

In an ambient temperature (T_a) higher than +40°C the maximum operating current (I₀) is calculated as follows: $I_0 = I_r \sqrt{(85-Ta)/45}$

Available Part Numbers

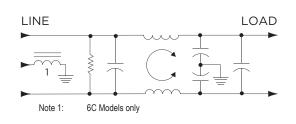
3VSK1	3ESK1	20ESK6
3VSK3	3ESK3	20VSK6
3VSK7	3ESK7	30ESK6
3VSK7M	3ESK7M	30ESK6C
6VSK1	6ESK1	30VSK6
6VSK3	6ESK3	30VSK6C
6VSK7	6ESK7	40VSK6
6VSK7M	6ESK7M	
10VSK1	10ESK1	
10VSK3	10ESK3	
10VSK7	10ESK7	
10VSK7M	10ESK7M	

*IEC 60320-1 C14 inlet mates with C13 connector



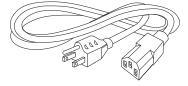
SK Series

Electrical Schematic

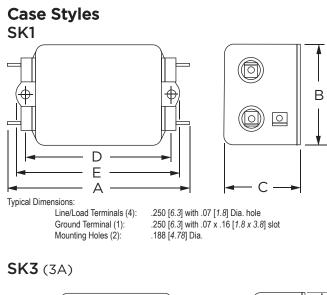


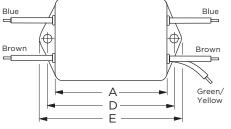
Accessories

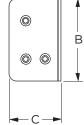
GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord



ESK6 / VSK6





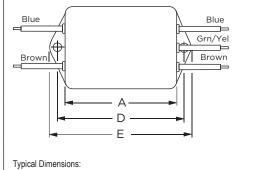


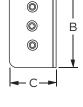
Typical Dimensions:

Wire Leads (5): Mounting Holes (2):

4.0 [*101.6*] Min., AWG18 .188 [4.78] Dia.







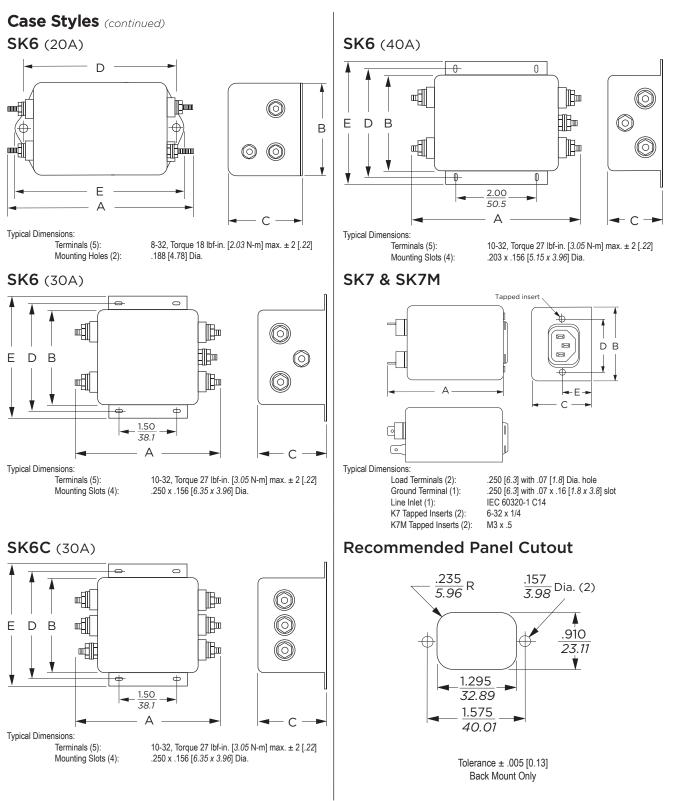
Wire Leads (5): Mounting Holes (2):

4.0 [101.6] Min., AWG18 (AWG16 for 10A) .188 [4.78] Dia.

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change.



SK Series



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SK Series

Case Dimensions

Part No.	А	В	С	D	Е		
Part NO.	(max)	(max)	(max)	<u>± .015</u> ± .38	(max)		
3VSK1,	3.85	2.07	1.16	2.938	3.35		
3ESK1	97.8	52.6	29.5	74.63	85.1		
3VSK3,	2.56	2.07	1.16	2.938	3.35		
3ESK3	65.0	65.0 52.6 29.5 74.63		85.1			
3VSK7/7M,	3.21	2.25	1.53	1.575	0.63*		
3ESK7/7M	81.5	57.2	38.9	40.01	16.0*		
6VSK1,	4.34	2.25	1.28	3.427	3.83		
6ESK1	110.2	57.2	32.5	87.05	97.3		
6VSK3,	3.05	2.25	1.28	3.427	3.83		
6ESK3	77.5	57.2	32.5	87.05	97.3		
6VSK7/7M,	3.21	2.25	1.78	1.575	0.63*		
6ESK7/7M	81.5	57.2	45.2	40.01	16.0*		
10VSK1,	4.97	2.25	1.78	4.063	4.46		
10ESK1	126.2	57.2	45.2	103.2	113.3		
10VSK3,	3.69	2.25	1.78	4.063	4.46		
10ESK3	93.7	57.2	45.2	103.2	113.3		
10VSK7/7M,	4.34	2.25	1.78	1.575	0.63*		
10ESK7/7M	110.0	57.2	45.2	40.01	16.0*		
20VSK6,	5.09	2.25	1.78	4.063	4.46		
20ESK6	127.3	57.2	45.2	103.2	129.3		
Part No.	Α	В	С	D	E		
	(max)	(max)	(max)	<u>±.020</u> ±.51	(max)		
30VSK6,	4.92	3.12	2.75	3.437	4.00		
30ESK6	125.0	79.25	69.85	87.3	101.6		
30VSK6C,	4.92	3.12	2.75	3.437	4.00		
30ESK6C	125.0	79.25	69.85	87.3	101.6		
40VSK6	6.45	3.12	2.18	3.50	3.96		
	163.83	79.25	55.4	88.9	100.6		

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system

3 & 6VSK

10 & 20VSK

db 100

90

80

70

60

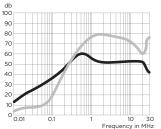
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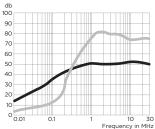
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30

20

0_0.01

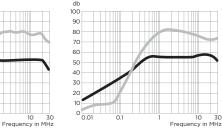


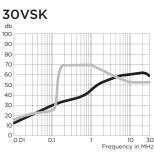




10 & 20ESK

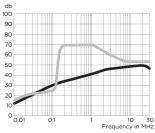
3 & 6ESK





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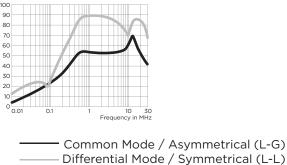
30ESK



*±0.02 [0.5]

db 100

40VSK



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SK Series

Performance Data (continued)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Current	Frequency – MHz								
Rating	.01	.08	.1	.15	.5	1	5	10	30
VSK Models									
3A, 6A	4	23	25	29	43	44	42	42	30
10A	4	23	25	29	43	44	42	42	30
20A	7	23	25	29	43	44	48	48	48
30A	2	13	14	15	27	31	46	51	39
40A	2	15	18	22	40	43	45	50	30
ESK Models									
3A, 6A	4	22	24	28	42	40	36	36	27
10A	4	22	24	28	42	40	36	36	27
20A	7	22	24	28	35	38	45	45	45
30A	2	13	15	15	27	31	40	41	36

Differential Mode / Symmetrical (Line to Line)									
Current	Frequency – MHz								
Rating	.01	.08	.1	.15	.5	1	5	10	30
VSK Models									
3A, 6A	1	3	10	25	59	65	62	40	40
10A	1	3	3	10	55	65	65	50	50
20A	1	10	8	8	45	60	65	60	60
30A	5	13	13	13	60	60	51	43	43
40A	7	14	16	30	65	65	65	57	50
ESK Models									
3A, 6A	1	3	10	25	59	65	62	40	40
10A	1	3	3	10	55	65	65	65	45
20A	1	10	8	8	45	60	65	60	60
30A	5	12	12	13	60	60	51	43	43

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