Catalog: 1654001

Issue Date: 06.2011

ESK Models

.21 mA



High Performance K Series RFI Line Filters for SMPS Emission Control

SK Series



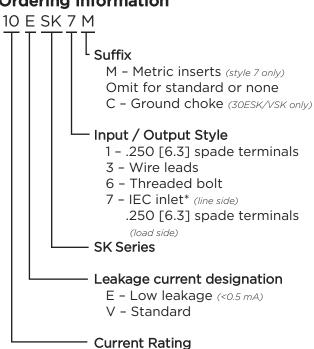
UL Recognized CSA Certified VDE Approved



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

@120 VAC 60 Hz:

Maximum leakage current each Line to Ground:

@250 VAC 50 Hz:	.7 mA	.36 mA
20, 30 & 40A @120 VAC 60 Hz: @250 VAC 50 Hz:	.75 mA 1.25 mA	.3 mA .5 mA
Hipot rating (one minute): Line to Ground: Line to Line:		2250 VDC 1450 VDC
Rated Voltage (max):		250 VAC
Operating Frequency:		50/60 Hz
Rated Current:		3 to 40A

VSK Models

.4 mA

Operating Ambient Temperature Range

(at rated current I_r): -10°C to +40°C In an ambient temperature (T_a) higher than +40°C the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{(85-T_a)/45}$

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	
	<u> </u>	

*IEC 60320-1 C14 inlet mates with C13 connector

3, 6, 10, 20, 30 or 40A

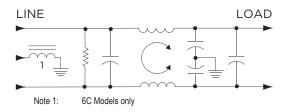


Catalog: 1654001 Issue Date: 06.2011

High Performance K Series Filters for SMPS Emission Control (continued)

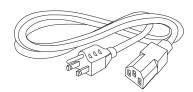
SK Series

Electrical Schematic



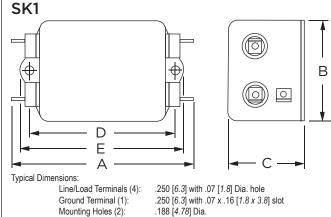
Accessories

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

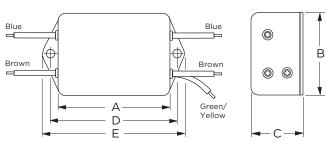




Case Styles



SK3 (3A)



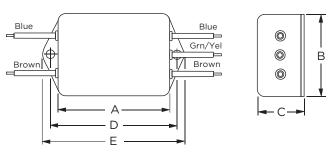
Typical Dimensions:

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

Mounting Holes (2):

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

SK3 (6 & 10A)



Typical Dimensions:

Wire Leads (5): Mounting Holes (2): 4.0 [101.6] Min., AWG18 (AWG16 for 10A) .188 [4.78] Dia.

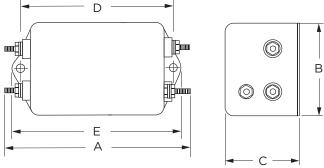


High Performance K Series Filters for SMPS Emission Control (continued)

SK Series

Case Styles (continued)

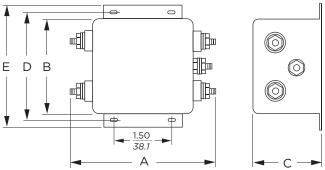
SK6 (20A)



Typical Dimensions:

Terminals (5): Mounting Holes (2): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .188 [4.78] Dia.

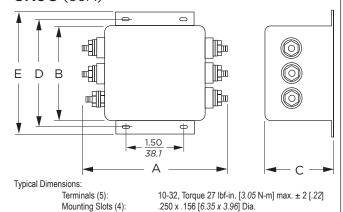
SK6 (30A)



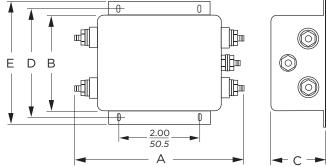
Typical Dimensions:

Terminals (5): Mounting Slots (4): 10-32, Torque 27 lbf-in. [3.05 N-m] max. \pm 2 [.22] .250 x .156 [6.35 x 3.96] Dia.

SK6C (30A)



SK6 (40A)



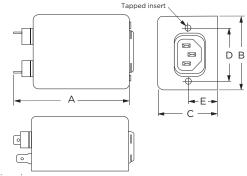
Typical Dimensions:

Terminals (5): Mounting Slots (4): 10-32, Torque 27 lbf-in. [3.05 N-m] max. \pm 2 [.22] .203 x .156 [5.15 x 3.96] Dia.

Catalog: 1654001

Issue Date: 06.2011

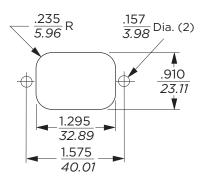
SK7 & SK7M



Typical Dimensions:

Load Terminals (2): Ground Terminal (1): Line Inlet (1): K7 Tapped Inserts (2): K7M Tapped Inserts (2): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot IEC 60320-1 C14 6-32 x 1/4 M3 x .5

Recommended Panel Cutout



Tolerance ± .005 [0.13] Back Mount Only



Catalog: 1654001 Issue Date: 06.2011

High Performance K Series Filters for SMPS Emission Control (continued)

SK Series

Case Dimensions

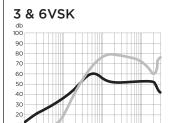
Α	В	С	D 015	E
(max)	(max)	(max)	± .38	(max)
3.85	2.07	1.16	2.938	3.35
97.8	52.6	29.5	74.63	85.1
2.56	2.07	1.16	2.938	3.35
65.0	52.6	29.5	74.63	85.1
3.21	2.25	1.53	1.575	0.63*
81.5	57.2	38.9	40.01	16.0*
4.34	2.25	1.28	3.427	3.83
110.2	57.2	32.5	87.05	97.3
3.05	2.25	1.28	3.427	3.83
77.5	57.2	32.5	87.05	97.3
3.21	2.25	1.78	1.575	0.63*
81.5	57.2	45.2	40.01	16.0*
4.97	2.25	1.78	4.063	4.46
126.2	57.2	45.2	103.2	113.3
3.69	2.25	1.78	4.063	4.46
93.7	57.2	45.2	103.2	113.3
4.34	2.25	1.78	1.575	0.63*
110.0	57.2	45.2	40.01	16.0*
5.09	2.25	1.78	4.063	4.46
127.3	57.2	45.2	103.2	129.3
Α	В	С	D	Е
(max)	(max)	(max)	± .020 ± .51	(max)
4.92	3.12	2.75	3.437	4.00
125.0	79.25	69.85	87.3	101.6
4.92	3.12	2.75	3.437	4.00
125.0	79.25	69.85	87.3	101.6
6.45	3.12	2.18	3.50	3.96
163.83	79.25	55.4	88.9	100.6
	(max) 3.85 97.8 2.56 65.0 3.21 81.5 4.34 110.2 3.05 77.5 3.21 81.5 4.97 126.2 3.69 93.7 4.34 110.0 5.09 127.3 A (max) 4.92 125.0 4.92 125.0 6.45	(max) (max) 3.85 2.07 97.8 52.6 2.56 2.07 65.0 52.6 3.21 2.25 81.5 57.2 4.34 2.25 110.2 57.2 3.05 2.25 77.5 57.2 3.21 2.25 81.5 57.2 4.97 2.25 126.2 57.2 3.69 2.25 93.7 57.2 4.34 2.25 110.0 57.2 5.09 2.25 127.3 57.2 A B (max) (max) 4.92 3.12 125.0 79.25 4.92 3.12 125.0 79.25 6.45 3.12	(max) (max) (max) 3.85 2.07 1.16 97.8 52.6 29.5 2.56 2.07 1.16 65.0 52.6 29.5 3.21 2.25 1.53 81.5 57.2 38.9 4.34 2.25 1.28 110.2 57.2 32.5 3.05 2.25 1.28 77.5 57.2 32.5 3.21 2.25 1.78 81.5 57.2 45.2 4.97 2.25 1.78 126.2 57.2 45.2 3.69 2.25 1.78 126.2 57.2 45.2 4.34 2.25 1.78 110.0 57.2 45.2 4.34 2.25 1.78 127.3 57.2 45.2 A B C (max) (max) (max) 4.92 3.12 2.75	(max) (max) (max) ± .015 ± .38 3.85 2.07 1.16 2.938 97.8 52.6 29.5 74.63 2.56 2.07 1.16 2.938 65.0 52.6 29.5 74.63 3.21 2.25 1.53 1.575 81.5 57.2 38.9 40.01 4.34 2.25 1.28 3.427 110.2 57.2 32.5 87.05 3.05 2.25 1.28 3.427 77.5 57.2 32.5 87.05 3.21 2.25 1.78 1.575 81.5 57.2 45.2 40.01 4.97 2.25 1.78 4.063 126.2 57.2 45.2 103.2 3.69 2.25 1.78 4.063 93.7 57.2 45.2 103.2 4.34 2.25 1.78 1.575 110.0 57.2 45.2

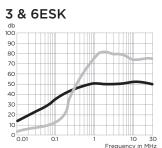
*±0.02 [0.5]

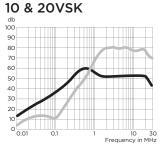
Performance Data

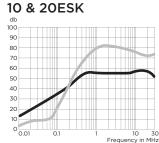
Typical Insertion Loss

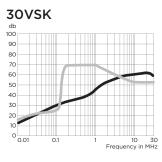
Measured in closed 50 Ohm system

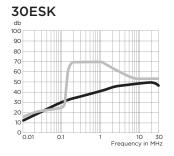


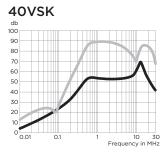












Common Mode / Asymmetrical (L-G)Differential Mode / Symmetrical (L-L)

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High Performance K Series Filters for SMPS Emission Control (continued)

SK Series

Performance Data (continued)

Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode / Asymmetrical (Line to Ground)

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

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)