High Performance RFI Filters for Switching Power Supplies

G Series



UL Recognized CSA Certified VDE Approved



6EG1 / 6VG1

G Series

- Designed to provide excellent attenuation for most digital electronics equipment
- Broad frequency range of performance from 20kHz to 30MHz
- Size and cost-effective solution
- Designed to help comply with EN55022 Level A and FCC Part 15J Class B

Ordering Information



6 or 10A

Available Part Numbers

6EG1	6VG1
10EG1	10VG1

Specifications

Maximum leakage current each Line to Ground:

@ 120 VAC 60 Hz: @250 VAC 50 Hz:	<u>EG Models</u> .30 mA .50 mA	<u>VG Models</u> 1.2 mA 2.0 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:		6 & 10A
Operating Ambient Tempe	rature Range	
(at rated current I _r): In an ambient temperat	-	0°C to +40°C er than +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 $\sqrt{(85-Ta)/45}$

Electrical Schematics

6EG1 & 6VG1



10EG1 & 10VG1



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.

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High Performance RFI Filters for Switching Power Supplies (continued)

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Case Styles





Case Dimensions

Part No.	A (max)	B (max)	C (max)	D <u>± .015</u> ± .38	E (max)
6EG1/VG1	3.56	2.15	1.56	2.938	3.38
	90.4	54.6	39.6	74.63	85.8
10EG1/VG1	4.69	2.27	1.8	4.063	4.47
	119.1	57.7	45.7	103.2	113.5

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

Typical Dimensions:

.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system





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



Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

Current	Frequency – MHz									
Rating	.01	.05	.07	.1	.15	.5	1	5	10	30
EG Mode	ls									
6A	6	19	23	25	29	48	44	43	40	40
10A	8	10	15	18	42	64	65	65	60	60
VG Mode	ls									
6A	4	18	21	25	30	56	55	53	45	45
10A	5	10	24	37	50	72	70	70	60	60

Differential Mode / Symmetrical (Line to Line)

Current		Frequency – MHz								
Rating	.01	.05	.07	.1	.15	.5	1	5	10	30
EG Mode	ls									
6A	4	6	10	24	37	66	75	72	50	50
10A	5	5	5	26	40	65	65	60	70	70
VG Mode	ls									
6A	4	7	7	26	39	67	75	68	55	55
10A	5	5	7	26	39	65	60	60	70	70

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