

High Performance RFI Filters for Switching Power Supplies

# G Series



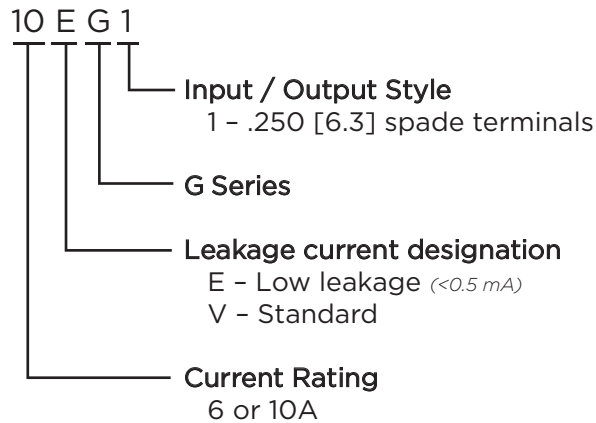
UL Recognized  
CSA Certified  
VDE Approved



## 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



## Available Part Numbers

6EG1	6VG1
10EG1	10VG1

## Specifications

### Maximum leakage current each Line to Ground:

	EG Models	VG Models
@ 120 VAC 60 Hz:	.30 mA	1.2 mA
@ 250 VAC 50 Hz:	.50 mA	2.0 mA

### Hipot rating (one minute):

Line to Ground:	2250 VDC
Line to Line:	1450 VDC

**Rated Voltage (max):** 250 VAC

**Operating Frequency:** 50/60 Hz

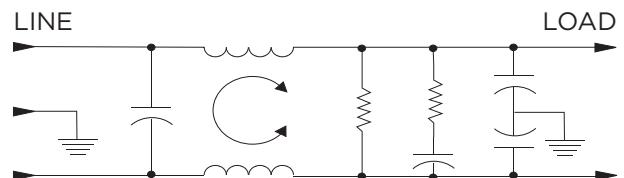
**Rated Current:** 6 & 10A

### Operating Ambient Temperature Range

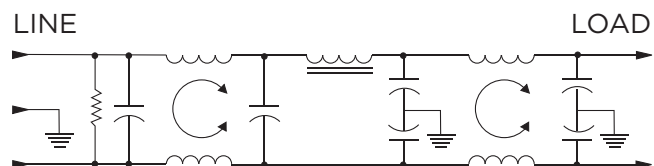
(at rated current  $I_r$ ): -10°C to +40°C  
In an ambient temperature ( $T_a$ ) higher than +40°C the maximum operating current ( $I_o$ ) is calculated as follows:  $I_o = I_r \sqrt{(85-T_a)/45}$

## Electrical Schematics

### 6EG1 & 6VG1



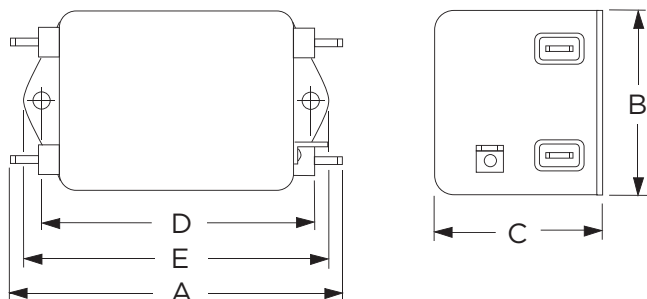
### 10EG1 & 10VG1



High Performance RFI Filters for Switching Power Supplies *(continued)*

# G Series

## Case Styles



Typical Dimensions:

- Line/Load Terminals (4): .250 [6.3] with .07 [1.8] Dia. hole
- Ground Terminal (1): .250 [6.3] with .07 x .16 [1.8 x 3.8] slot
- Mounting Holes (2): .188 [4.78] Dia.

## Case Dimensions

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

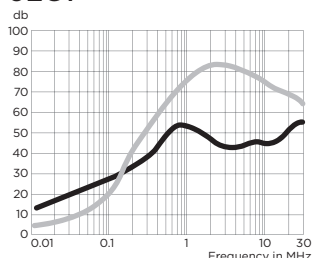
## Performance Data

### Typical Insertion Loss

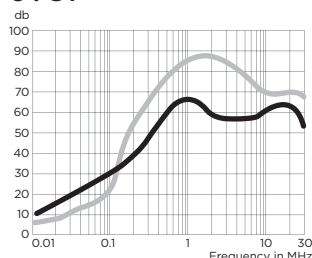
Measured in closed 50 Ohm system

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

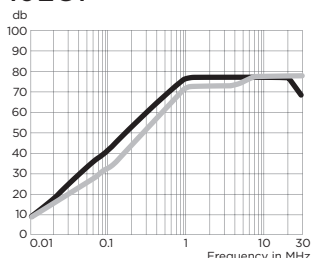
6EG1



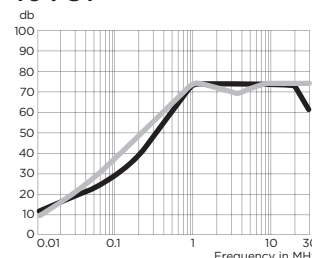
6VG1



10EG1



10VG1



### Minimum Insertion Loss

Common Mode / Asymmetrical (Line to Ground)

Current Rating	Frequency – MHz									
	.01	.05	.07	.1	.15	.5	1	5	10	30
<b>EG Models</b>										
6A	6	19	23	25	29	48	44	43	40	40
10A	8	10	15	18	42	64	65	65	60	60
<b>VG Models</b>										
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 Rating	Frequency – MHz									
	.01	.05	.07	.1	.15	.5	1	5	10	30
<b>EG Models</b>										
6A	4	6	10	24	37	66	75	72	50	50
10A	5	5	5	26	40	65	65	60	70	70
<b>VG Models</b>										
6A	4	7	7	26	39	67	75	68	55	55
10A	5	5	7	26	39	65	60	60	70	70

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[6EG1](#) [10EG1](#) [10VG1](#) [6VG1](#)