

**High Performance, Low Cost Filter Ideal for Appliance Equipment**

# WG Series



UL Recognized  
CSA Certified  
VDE Approved

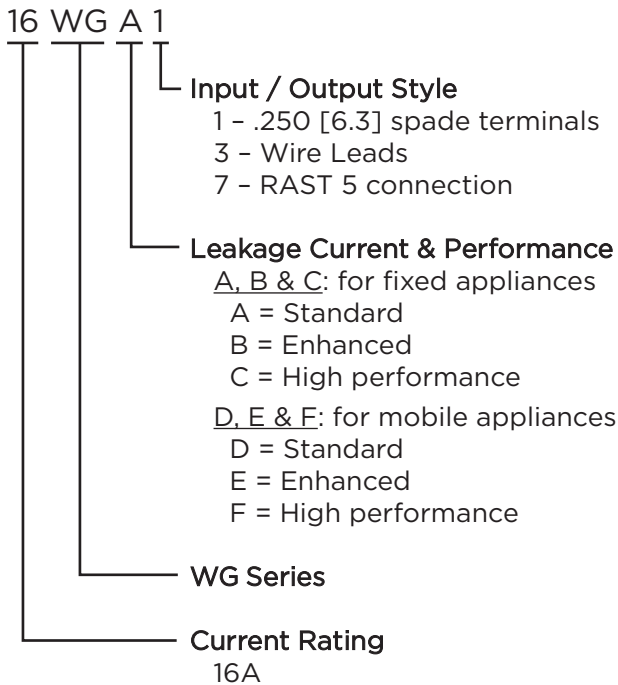


WG\_1 Style

## WG Series

- Cost-effective
- Tubular design
- WGA, WGB and WGC versions designed to comply with leakage current for fixed appliances not easily moved from one place to another
- WGD, WGE and WGF versions designed to comply with leakage current requirements for appliances which may be easily moved from one place to another
- Available in a variety of styles

## Ordering Information



## Specifications

### Maximum leakage current each Line to Ground:

	A, B & C Models	D, E & F Models
@ 120 VAC 60 Hz:	.76 mA	.10 mA
@ 250 VAC 50 Hz:	1.27 mA	.20 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:

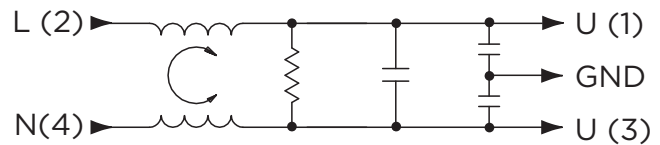
16A

### Operating Ambient Temperature Range

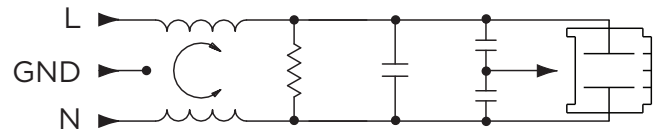
(at rated current  $I_r$ ): -10°C to +40°C

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



### With RAST 5 Connector (style 7)



## Available Part Numbers

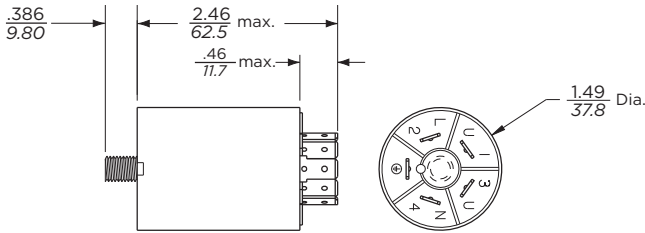
16WGA1	16WGA3	16WGA7
16WGB1	16WGB3	16WGB7
16WGC1	16WGC3	16WGC7
16WGD1	16WGD3	16WGD7
16WGE1	16WGE3	16WGE7
16WGF1	16WGF3	16WGF7

**High Performance, Low Cost Filter for Appliance Equipment** *(continued)*

# WG Series

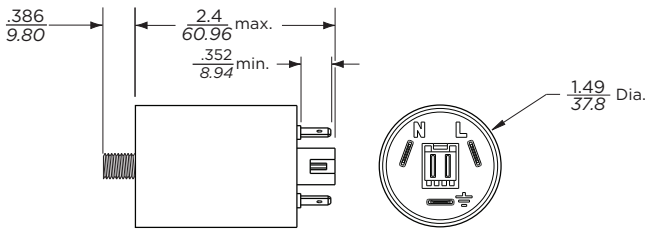
## Case Styles

### WG\_1



Typical Dimensions:  
Terminals (5): .25 [6.3] with .07 [1.8] Dia. hole  
Mounting Stud (1): M8 x 1.25

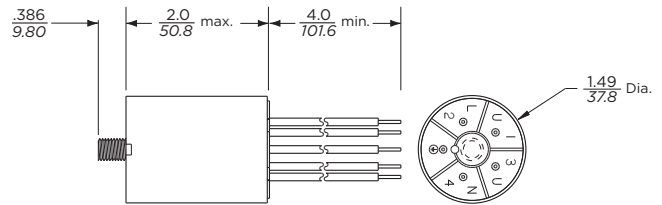
### WG\_7



Typical Dimensions:  
Terminals (3): .25 [6.3] with .07 [1.8] Dia. hole  
RAST 5: Unkeyed RAST 5 Header interface\*  
Mounting Stud (1): M8 x 1.25

\*The RAST 5 interface mates with any two-position (keyed or unkeyed) Tyco Electronics Standard Power Timer connector or RAST 5 Positive Lock Mark III connector

### WG\_3



Typical Dimensions:  
Wire Leads(5): 4.0 [101.6] min. 18AWG UL 1015  
Mounting Stud (1): M8 x 1.25

Wire Colors:  
L(2) Brown  
N(4) Blue  
U(1) Brown  
Gnd Green / Yellow  
U(3) Blue



RFI Power Line Filters



WG\_7 Style

**High Performance, Low Cost Filter for Appliance Equipment** *(continued)*

# WG Series

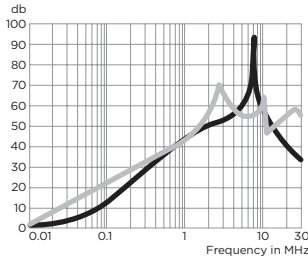
## Performance Data

### Typical Insertion Loss

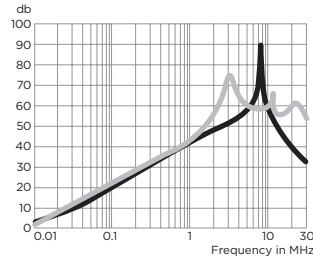
Measured in closed 50 Ohm system

### All Case Styles

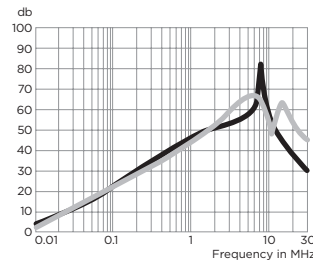
**16WGA**



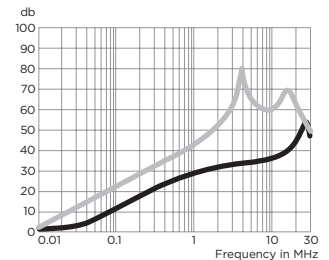
**16WGB**



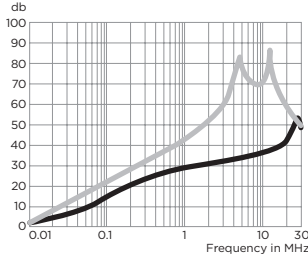
**16WGC**



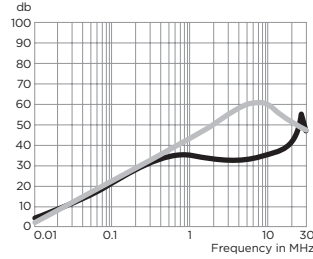
**16WGD**



**16WGE**



**16WGF**



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

### Minimum Insertion Loss

Measured in closed 50 Ohm system

#### Common Mode / Asymmetrical (Line to Ground)

Part No.	Frequency – MHz									
	.05	.1	.15	.5	1	2	5	10	20	30
<b>All Styles</b>										
16WGA	3	10	14	33	41	47	54	50	37	30
16WGB	11	16	21	33	39	44	53	55	37	30
16WGC	12	18	22	34	41	46	51	52	34	27
16WGD	3	8	11	22	26	31	31	33	40	44
16WGE	5	12	15	21	23	25	31	32	37	45
16WGF	9	14	18	24	26	28	31	32	37	44

#### Differential Mode / Symmetrical (Line to Line)

Part No.	Frequency – MHz									
	.05	.1	.15	.5	1	2	5	10	20	30
<b>All Styles</b>										
16WGA	14	19	22	33	41	51	47	42	48	50
16WGB	14	19	22	33	41	51	50	45	52	45
16WGC	13	19	22	33	40	50	58	42	48	42
16WGD	13	19	22	33	40	48	58	57	54	45
16WGE	13	19	22	33	40	48	58	57	51	45
16WGF	13	19	22	33	40	49	58	59	50	44