

High Performance, Low Cost Filter Ideal for Appliance Equipment

WG Series



UL Recognized
CSA Certified
VDE Approved

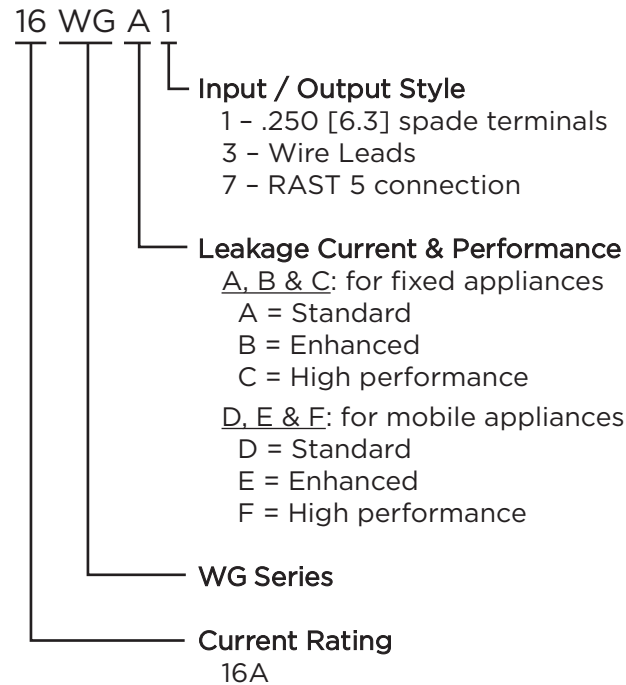


WG_1 Style

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:

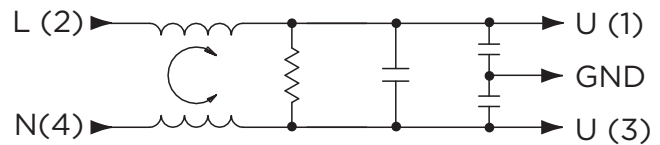
16A

Operating Ambient Temperature Range

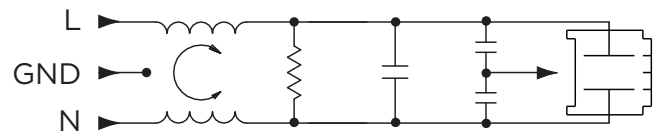
(at rated current I_r): -10°C to +40°C

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

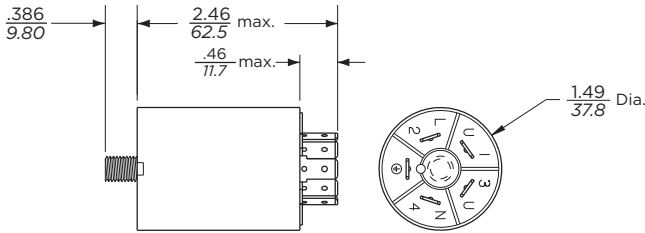
| | | |
|--------|--------|--------|
| 16WGA1 | 16WGA3 | 16WGA7 |
| 16WGB1 | 16WGB3 | 16WGB7 |
| 16WGC1 | 16WGC3 | 16WGC7 |
| 16WGD1 | 16WGD3 | 16WGD7 |
| 16WGE1 | 16WGE3 | 16WGE7 |
| 16WGF1 | 16WGF3 | 16WGF7 |

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

WG Series

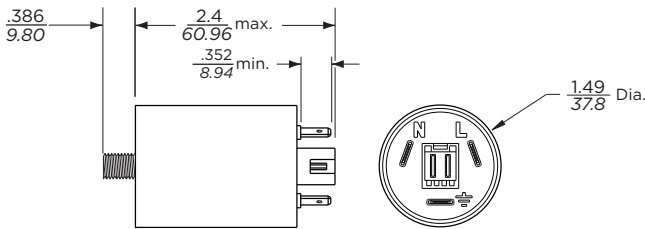
Case Styles

WG_1



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

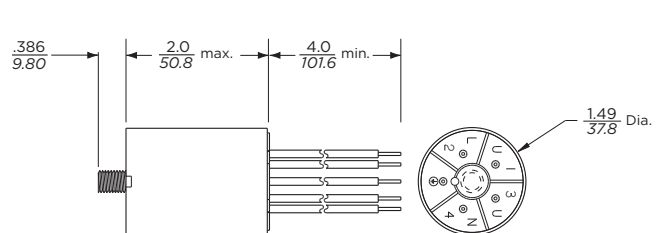
WG_7



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

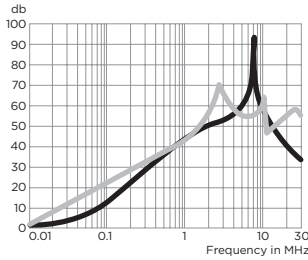
Performance Data

Typical Insertion Loss

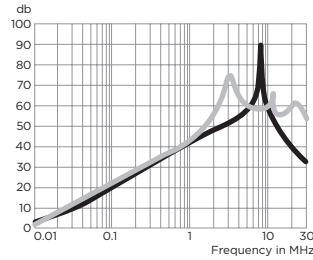
Measured in closed 50 Ohm system

All Case Styles

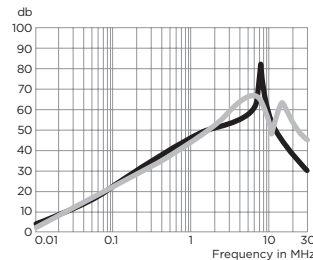
16WGA



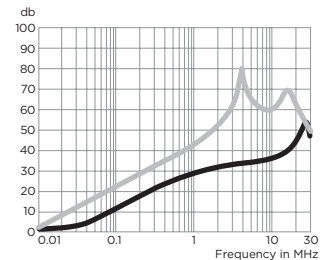
16WGB



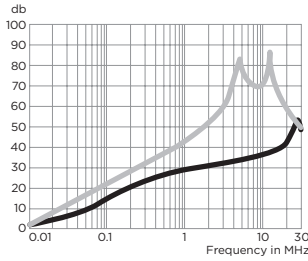
16WGC



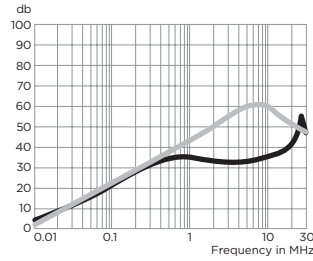
16WGD



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 |
| All Styles | | | | | | | | | | |
| 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 |
| All Styles | | | | | | | | | | |
| 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 |