

High Performance, Low Cost Filter Ideal for Appliance Equipment

WG Series



UL Recognized
CSA Certified
VDE Approved



WG_1 Style

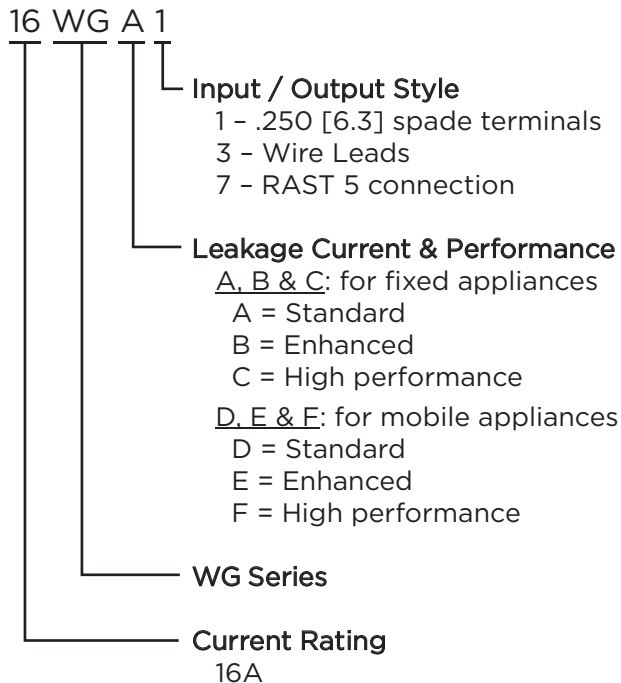
1

RFI Power Line Filters

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:

	<u>A, B & C Models</u>	<u>D, E & F Models</u>
@ 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

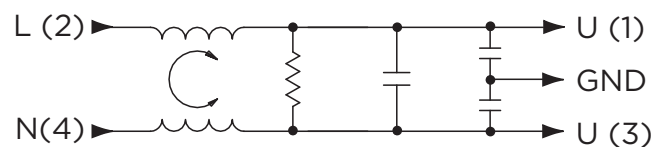
Rated Current:

16A

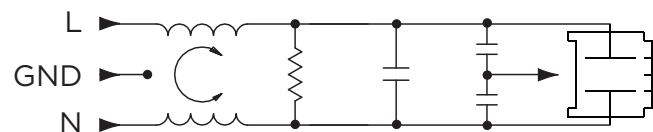
Operating Ambient Temperature Range

(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

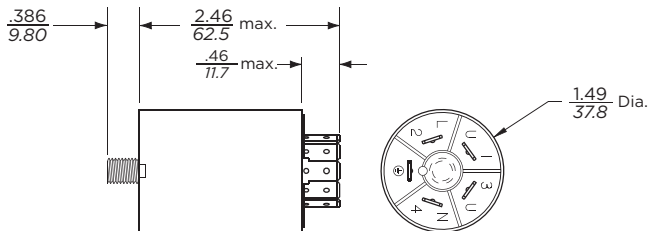
16WGA1	16WGA3	16WGA7
16WGB1	16WGB3	16WGB7
16WGC1	16WGC3	16WGC7
16WGD1	16WGD3	16WGD7
16WGE1	16WGE3	16WGE7
16WGF1	16WGF3	16WGF7

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

WG Series

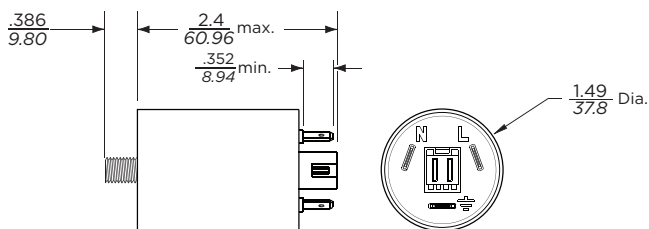
Case Styles

WG_1



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

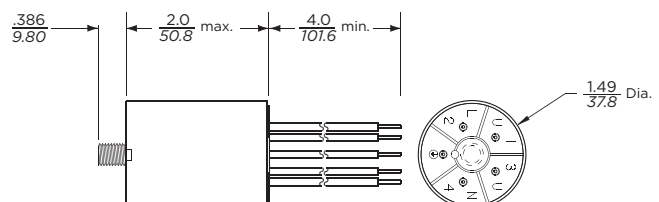
WG_7



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) TE 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



WG_7 Style

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

WG Series

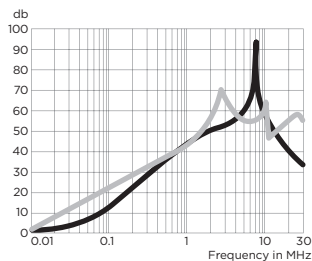
Performance Data

Typical Insertion Loss

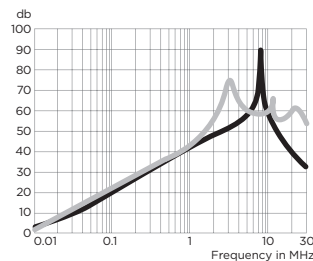
Measured in closed 50 Ohm system

All Case Styles

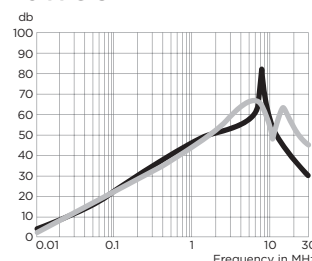
16WGA



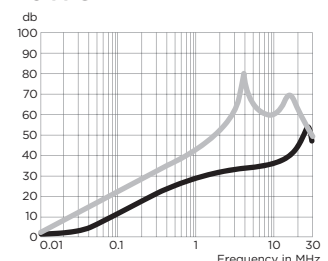
16WGB



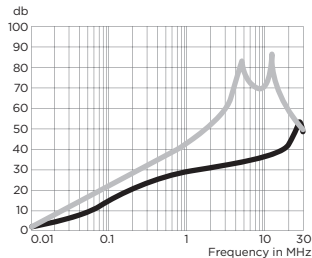
16WGC



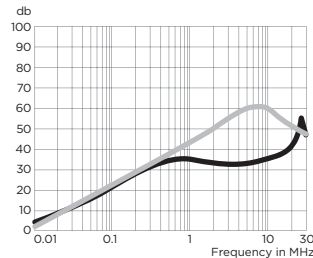
16WGD



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

Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[16WGB1](#) [16WGC1](#)