



GE SERIES

HIGH PERFORMANCE IEC  
CONNECTOR FILTERS

## INTRODUCTIONS

1. A high performance general purpose filter with an IEC connector providing effective EMI suppression.
2. Bleeder resistor can be added with suffix "-R" on part numbers, except "G3H", "G3V", "W3V", "G3J", "W3J", types.
3. All part numbers are UL recognized, CAS certified and VDE approved.
4. With optional Y-Cap from 100pF to 3300pF.

## COMPONENTS

| PART NO.             | Cx (uF) | L (mH) | Cy (pF) | R (Ω) |
|----------------------|---------|--------|---------|-------|
| 01GEEG3E/W3E/-R      | 0.1     | 6.5    | 2200    | 1M    |
| 01GEEG3H/G3V/W3V     |         | 3      | 3300    | -     |
| 01GEEG3S/-R          |         | 10.5   | -       | -     |
| 03GEEG3E/W3E/W3ES/-R |         | 2.5    | 2200    | 1M    |
| 03GEEG3U/-R          |         |        | -       | -     |
| •03GEEW3ES/-R        |         | 4      | 3300    | -     |
| 03GEEG3H/G3V/W3V     |         |        | -       | -     |
| 03GEEG3S/-R          |         | 2.4    | -       | 1M    |
| •03GEEG3Q/W3Q/-R     |         |        | -       | -     |
| 03GEEW3J             |         | 0.8    | 2200    | -     |
| 03GEHG3J             |         |        | -       | -     |
| 06GEEG3E/W3E/W3ES/-R |         | 1.05   | -       | 1M    |
| 06GEEG3U/-R          |         |        | -       | -     |
| 06GEEG3H/G3V/W3V     |         | 1.5    | 3300    | -     |
| 06GEEG3S/-R          |         |        | -       | -     |
| ••06GEEG3Q/W3Q/-R    |         | 0.4    | -       | -     |
| •••10GEEG3C/W3C/-R   |         |        | -       | -     |
| 10GEEG3E/W3E/W3ES/-R |         | 0.2    | 2200    | 1M    |
| 10GEEG3S/-R          |         |        | -       | -     |
| *10GEEG3Q/W3Q/-R     |         | 0.3    | -       | -     |
| 10GEEG3U/-R          |         |        | -       | -     |
| **15GEEG3E/W3E/-R    |         | 0.2    | -       | -     |
| ***20GEEG3E/W3E/-R   |         |        | -       | -     |

• UL, CSA approved to 4A 115/250V  
 •• UL, CSA approved to 8A 115/250V  
 ••• VDE approved to 8A/250V

\* UL, CSA approved to 13A 115/250V  
 \*\* VDE approved to 10A/250V  
 \*\*\* VDE approved to 16A/250V

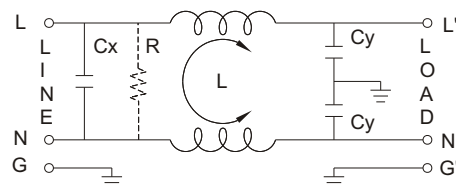
## MINIMUM INSERTION LOSS IN dB

| COMMON MODE (L-G) IN 50 OHM SYSTEM |               |     |     |     |    |    |
|------------------------------------|---------------|-----|-----|-----|----|----|
| CURRENT RATING                     | FREQUENCY-MHz |     |     |     |    |    |
|                                    | .15           | .50 | 1.0 | 5.0 | 10 | 30 |
| 1A(E)(S)                           | 28            | 35  | 38  | 38  | 40 | 40 |
| 1A(H)                              | 26            | 36  | 44  | 54  | 55 | 55 |
| 1A(G3V)                            | 24            | 35  | 42  | 50  | 55 | 55 |
| 1A(W3V)                            | 24            | 35  | 42  | 50  | 55 | 55 |
| 3A(E)(S)(Q)                        | 20            | 25  | 30  | 38  | 40 | 40 |
| 3A(H)                              | 24            | 30  | 38  | 50  | 55 | 40 |
| 3A(G3J,W3J)                        | 20            | 25  | 30  | 38  | 40 | 40 |
| 3A(G3V)(W3V)                       | 20            | 29  | 36  | 48  | 46 | 50 |
| 6A(E)(S)                           | 12            | 18  | 24  | 35  | 40 | 40 |
| 6A(H)                              | 15            | 25  | 28  | 35  | 45 | 45 |
| 6A(Q)                              | 15            | 20  | 24  | 35  | 40 | 55 |
| 6A(G3V)(W3V)                       | 14            | 23  | 30  | 42  | 45 | 50 |
| 10A(E)(S)                          | 4             | 10  | 13  | 28  | 35 | 40 |
| 10A(C)                             | 10            | 15  | 15  | 25  | 30 | 35 |
| 10A(Q)                             | 10            | 12  | 15  | 30  | 32 | 45 |
| 15A(E)                             | 4             | 10  | 13  | 28  | 35 | 40 |
| 20A                                | 8             | 10  | 15  | 25  | 30 | 35 |

## SPECIFICATIONS

1. Maximum leakage current each line-to-ground @ 115VAC 60Hz: 0.25mA @ 250VAC 50Hz: 0.45mA
2. Hipot rating (one minute) line-to-ground: 2250VDC line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

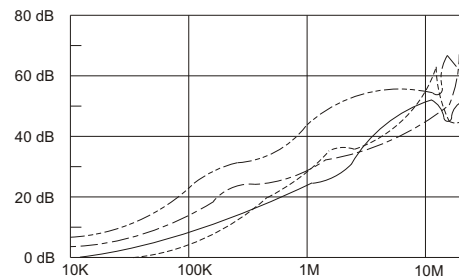
## ELECTRICAL SCHEMATIC



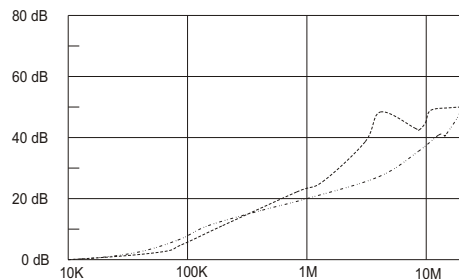
R : 1MΩ /-R ONLY

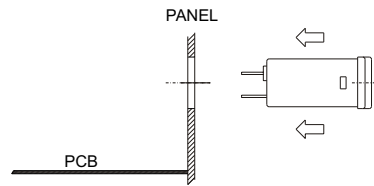
## INSERTION LOSS (TYPICAL)

03GEEG3E ----- COMMON MODE ----- DIFF. MODE  
 06GEEG3E ----- COMMON MODE ----- DIFF. MODE



20GEEG3E ----- COMMON MODE ----- DIFF. MODE





ASSEMBLY FROM FRONT

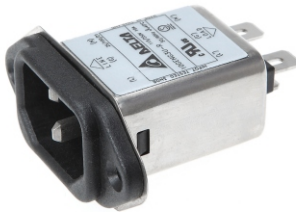
## MECHANICAL CONSTRUCTION



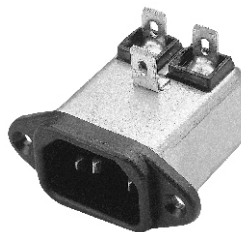
EG3E, EG3Q (Optional soldering lug or wire type)



EG3S



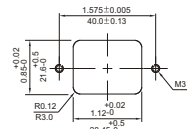
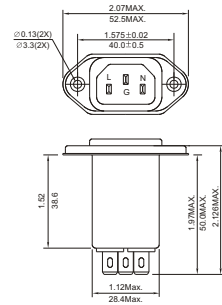
EG3U (With Compact Size)



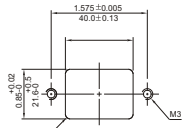
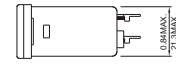
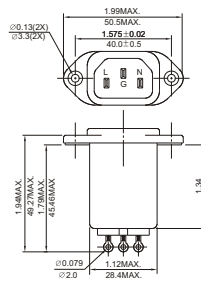
EG3V



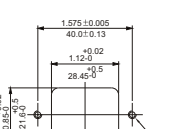
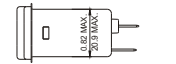
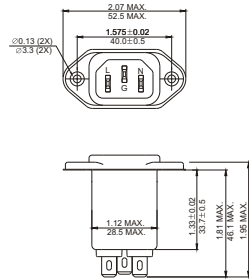
EW3V



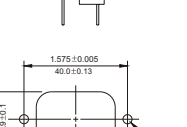
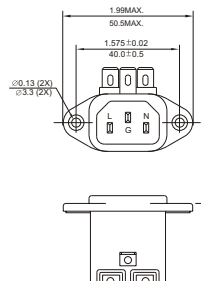
SUGGESTED MOUNTING CUTOUT (MOUNTING FROM FRONT)



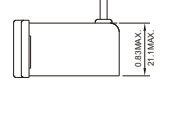
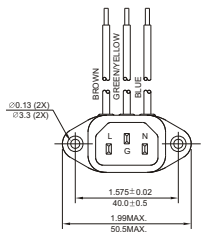
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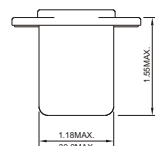
SUGGESTED MOUNTING CUTOUT (MOUNTING FROM FRONT)



SUGGESTED MOUNTING CUTOUT (MOUNTING FROM FRONT)



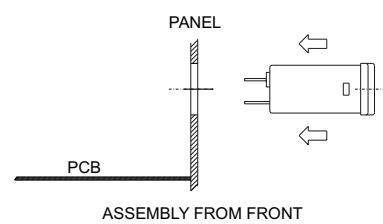
SUGGESTED MOUNTING CUTOUT (MOUNTING FROM FRONT)



SUGGESTED MOUNTING CUTOUT (SAME AS ABOVE)

WIRE LENGTH : 4.0" MIN.

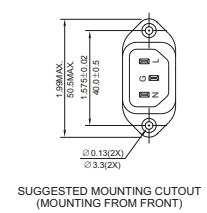
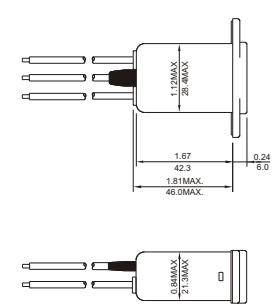
UNIT: INCH  
mm



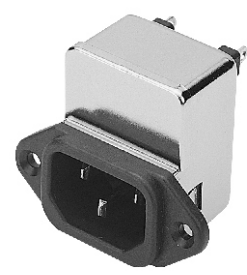
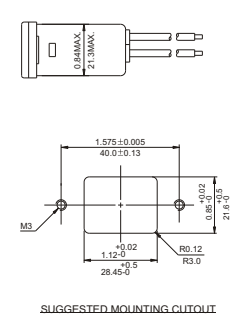
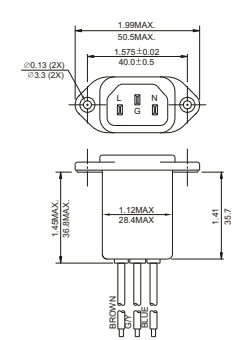
# MECHANICAL CONSTRUCTION



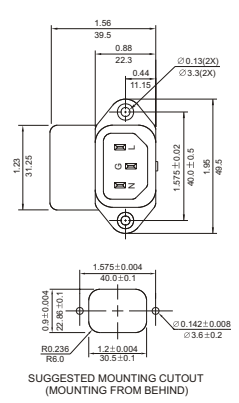
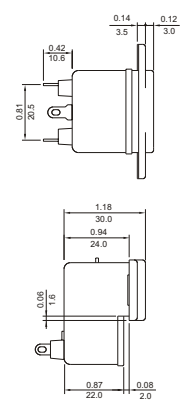
EW3J



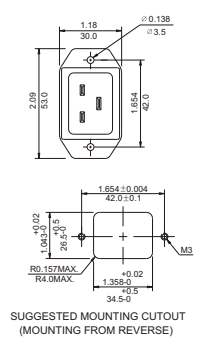
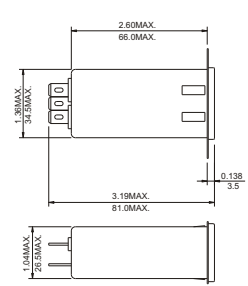
EW3ES



HG3J



20GEEG3E (Optional wire type)



WIRE LENGTH : 4.0" MIN.

UNIT: INCH  
mm

# Mouser Electronics

Authorized Distributor

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