



DC SERIES

## SWITCHING TRANSIENT FILTERS



## INTRODUCTIONS

1. Two-stage filters provide high insertion loss for both line-to-line and line-to-ground emissions throughout the frequency range.

## COMPONENTS

| PART NO.        | C1 (uF) | C2 (pF) | L1 (mH) | L2 (uH) | R (K Ω ) |
|-----------------|---------|---------|---------|---------|----------|
| 03DCCG5B/W5B    | 0.47    | 4700    | 9.8     | 160     | 470      |
| 06DCCG5B/W5B    | 1.0     |         | 7.8     | 110     | 220      |
| 12DCCG5B/W5B    |         |         | 3.25    | 50      |          |
| 16DCG5B/W5B/S5B |         |         | 2.8     | 43      |          |

## SERIES DIMENSIONS

| PART NO.         | DIMENSIONS IN INCHES/mm |               |               |               |              |              |              |
|------------------|-------------------------|---------------|---------------|---------------|--------------|--------------|--------------|
|                  | A                       | B             | C             | D             | E            | F            | G            |
| 03DCCG5B/W5B     | 2.95<br>75.0            | 3.34<br>84.8  | 2.05<br>52.0  | 2.58<br>65.6  | 1.54<br>39.2 | —            | —            |
| 06DCCG5B/W5B     | 4.06<br>103.0           | 4.49<br>114.0 | 2.22<br>56.5  | 3.76<br>95.5  | 1.83<br>46.4 | —            | —            |
| 12DCCG5B/W5B     | 5.63<br>143.0           | 6.02<br>152.9 | 2.05<br>52.0  | 5.30<br>134.7 | 1.78<br>45.3 | —            | —            |
| 16DCCG5B/S5B/W5B | 3.90<br>99.0            | 4.31<br>109.5 | 4.72<br>120.0 | 2.01<br>51.0  | 2.62<br>66.5 | 3.39<br>86.0 | 2.28<br>58.0 |

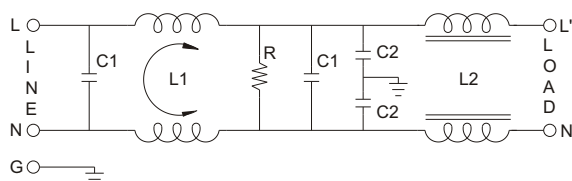
## MINIMUM INSERTION LOSS IN dB

| COMMON MODE (L-G) IN 50 OHM SYSTEM       |               |     |     |     |    |    |
|------------------------------------------|---------------|-----|-----|-----|----|----|
| CURRENT RATING                           | FREQUENCY-MHz |     |     |     |    |    |
|                                          | .15           | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A                                       | 25            | 45  | 55  | 55  | 55 | 35 |
| 6A                                       | 25            | 45  | 50  | 60  | 60 | 40 |
| 12A                                      | 20            | 30  | 40  | 55  | 60 | 25 |
| 16A                                      | 15            | 20  | 30  | 60  | 50 | 30 |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM |               |     |     |     |    |    |
| 3A                                       | 45            | 60  | 60  | 70  | 70 | 50 |
| 6A                                       | 50            | 60  | 60  | 60  | 60 | 50 |
| 12A                                      | 35            | 55  | 60  | 60  | 60 | 45 |
| 16A                                      | 40            | 55  | 55  | 60  | 60 | 50 |

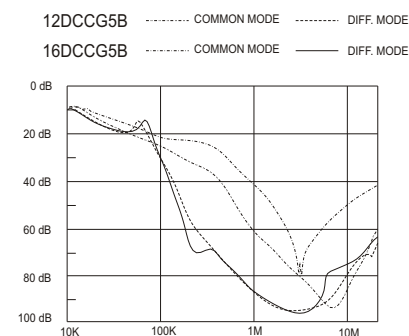
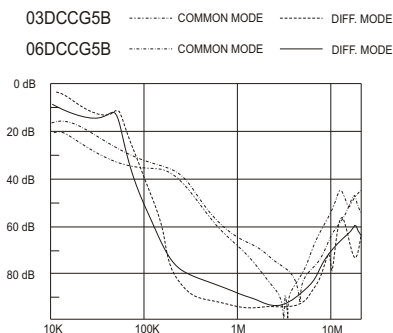
## SPECIFICATIONS

- Maximum leakage current each  
line-to-ground @ 115VAC 60Hz: 0.40mA  
@ 250VAC 50Hz: 0.80mA
- Hipot rating (one minute)  
line-to-ground: 2250VDC  
line-to-line: 1450VDC
- Operating frequency: 50/60Hz
- Rated voltage: 115/250VAC

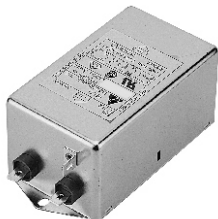
## ELECTRICAL SCHEMATIC



## INSERTION LOSS (TYPICAL)



## MECHANICAL CONSTRUCTION



CG5B



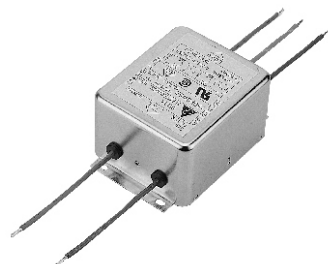
CW5B



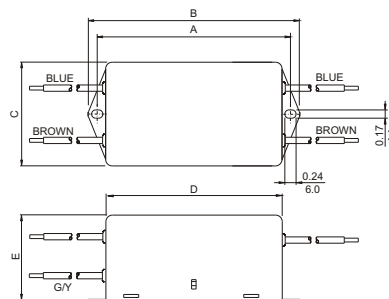
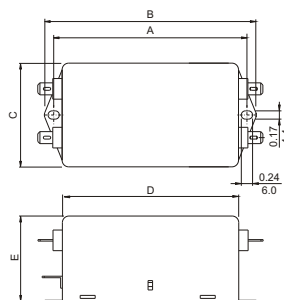
GG5B



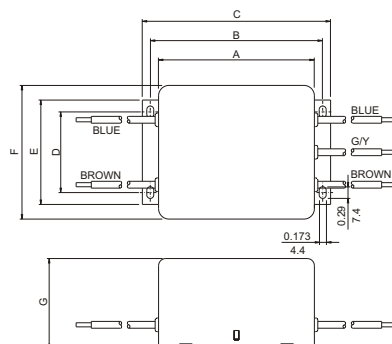
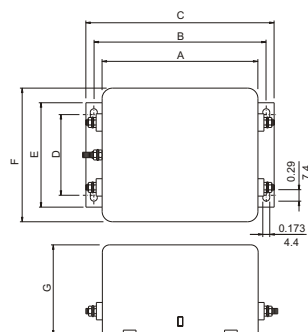
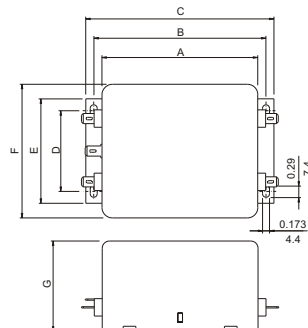
GS5B



GW5B



ALL WIRE LEADS 4.0" LONG MIN.



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UNIT:  $\frac{\text{INCH}}{\text{mm}}$