

### INTRODUCTIONS

1. Designed as a general purpose filter providing effective EMI suppression.
2. All part numbers are UL recognized, CSA certified and VDE approved.

### COMPONENTS

| PARTNO.   | Cx(μF) | L(mH) | Cy(pF) | R(Ω) |
|-----------|--------|-------|--------|------|
| * 02DBAG5 | 0.1    | 1.1   | 3300   | -    |
| * 02DBAW5 |        |       |        |      |
| * 03DBAG5 |        | 2.8   |        |      |
| * 03DBAW5 |        |       |        |      |
| * 05DBAG5 |        | 2.9   |        |      |
| * 05DBAW5 | 0.47   | 3.7   | 3300   | 330K |
| 06BDW3S   |        |       |        |      |
| * 10DBAG5 | 0.1    | 1.5   | 3300   | -    |
| * 10DBAW5 |        |       |        |      |
| * 10DBAS5 |        |       |        |      |
| 10BDG3S   | 0.47   | 1.45  |        | 330K |
| 20DBAG5   | 0.33   | 0.7   | 3300   | -    |
| 20DBAS5   |        |       |        |      |
| 12DBG5B   | 0.1    | 0.7   | 4700   | 1.0M |
| 16DBG5B   |        | 0.65  |        |      |
| 16DBCW5B  |        |       |        |      |
| 20DBC5B   |        | 0.60  |        |      |
| 20BCS5B   |        |       |        |      |
| 30BCS5B   | 0.47   | 0.67  | 10000  |      |

- UL & CSA approved only.
- \* OPTION 300V

### 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 |
| 2,3,5A                                   | 15            | 30  | 38  | 45  | 45 | 40 |
| 6A                                       | 20            | 25  | 35  | 40  | 45 | 35 |
| 10A                                      | 20            | 30  | 35  | 50  | 50 | 45 |
| * 10A                                    | 15            | 22  | 30  | 40  | 40 | 45 |
| 20A                                      | 13            | 20  | 25  | 40  | 45 | 45 |
| 12A (BG5B)                               | 10            | 20  | 22  | 35  | 40 | 40 |
| 16A (CG5B) (CW5B)                        | 10            | 18  | 20  | 35  | 50 | 30 |
| 20A (CG5B) (CS5B)                        | 10            | 20  | 22  | 30  | 35 | 35 |
| 30A (CS5B)                               | 10            | 28  | 30  | 45  | 50 | 35 |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM |               |     |     |     |    |    |
| 2,3,5A                                   | 6             | 15  | 20  | 40  | 45 | 45 |
| 6A                                       | 10            | 18  | 20  | 30  | 35 | 40 |
| 10A                                      | 6             | 15  | 20  | 44  | 45 | 45 |
| * 10A                                    | 12            | 18  | 20  | 35  | 35 | 40 |
| 20A                                      | 15            | 24  | 28  | 45  | 45 | 45 |
| 12A (BG5B)                               | 5             | 12  | 15  | 35  | 45 | 35 |
| 16A (CG5B) (CW5B)                        | 5             | 10  | 15  | 45  | 45 | 40 |
| 20A (CG5B) (CS5B)                        | 4             | 10  | 15  | 45  | 45 | 40 |
| 30A (CS5B)                               | 12            | 20  | 25  | 45  | 50 | 45 |

\* 10BDG3S, DW3S

### SPECIFICATIONS

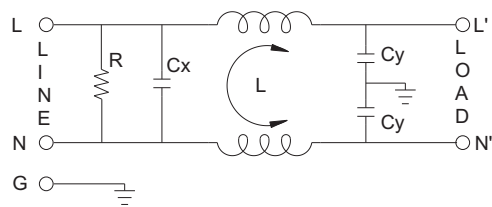
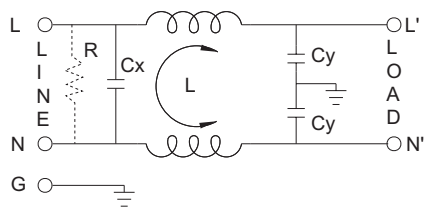
1. Maximum leakage current each  
line-to-ground @ 115VAC 60Hz: 0.25mA  
1.0mA (10000pF)  
@ 250VAC 50Hz: 0.45mA  
2.0mA (10000pF)
2. Hipot rating (one minute)  
line-to-ground: 2250VDC  
line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

### SERIES DIMENSIONS

| CURRENT RATING | STYLE | DIMENSIONS IN INCHES/mm |       |       |       |       |
|----------------|-------|-------------------------|-------|-------|-------|-------|
|                |       | A                       | B     | C     | D     | E     |
| 2A             | AG5   | 2.15                    | 45.0  | 0.65  | 2.13  | 2.54  |
|                |       | 54.6                    |       | 16.5  |       | 64.5  |
|                | AW5   | 0.96                    |       |       |       |       |
|                |       | 24.4                    |       |       |       |       |
| 3A             | AG5   | 2.54                    | 45.0  |       | 2.13  |       |
|                |       | 64.5                    |       |       |       |       |
|                | AW5   | 1.33                    |       | 0.77  |       | 2.50  |
|                |       | 33.8                    |       | 19.5  |       | 63.5  |
| 5A             | AG5   | 2.54                    | 45.0  |       | 2.13  |       |
|                |       | 64.5                    |       |       |       |       |
|                | AW5   | 1.33                    |       | 0.77  |       | 2.50  |
|                |       | 33.8                    |       | 19.5  |       | 63.5  |
| 6A             | DW3S  | 2.55                    | 2.08  | 1.29  | 1.575 | 0.61  |
|                |       | 64.77                   | 52.83 | 32.77 | 40.01 | 15.49 |
| 10A            | AG5   | 2.54                    | 45.0  | 1.18  | 2.13  | 2.50  |
|                |       | 64.5                    |       | 30.0  |       | 64.8  |
|                | AW5   | 1.33                    |       |       |       |       |
|                |       | 33.8                    |       |       |       |       |
|                | AS5   | 3.10                    | 2.02  | 1.18  | 2.38  | 2.77  |
|                |       | 78.7                    | 51.3  | 30.0  | 60.5  | 70.3  |
|                | DG3S  | 3.14                    | 2.10  | 1.28  | 1.575 | 0.61  |
|                |       | 79.80                   | 53.30 | 32.50 | 40.00 | 15.50 |
| 20A            | AG5   | 3.25                    | 2.02  | 1.16  | 2.38  | 2.75  |
|                |       | 82.5                    | 51.3  | 29.5  | 60.5  | 69.9  |
|                | AS5   | 3.37                    | 2.02  | 1.15  | 2.38  | 2.77  |
|                |       | 85.6                    | 51.3  | 29.2  | 60.5  | 70.3  |

| CURRENT RATING | STYLE | DIMENSIONS IN INCHES/mm |       |      |      |      |       |
|----------------|-------|-------------------------|-------|------|------|------|-------|
|                |       | A                       | B     | C    | D    | E    | F     |
| 12A            | BG5B  | 2.13                    | 2.54  | 1.34 | 1.77 | 1.18 | -     |
|                |       | 54.00                   | 64.5  | 34.0 | 45.0 |      |       |
| 16A            | CG5B  | 2.40                    | 2.81  | 1.79 | 2.02 |      | -     |
|                |       | 61.00                   | 71.5  | 45.5 | 51.3 |      | 3.94  |
| 20A            | CW5B  |                         |       |      |      |      | 100.0 |
|                |       |                         |       |      |      |      |       |
| 20A            | CG5B  | 2.95                    | 3.34  | 2.04 | 2.52 | 1.83 | -     |
|                |       | 75.00                   | 84.8  | 51.8 | 64.0 |      |       |
| 30A            | CS5B  | 4.06                    | 4.49  | 2.22 | 3.74 |      |       |
|                |       | 103.0                   | 114.0 | 56.5 | 95.0 |      | 46.4  |

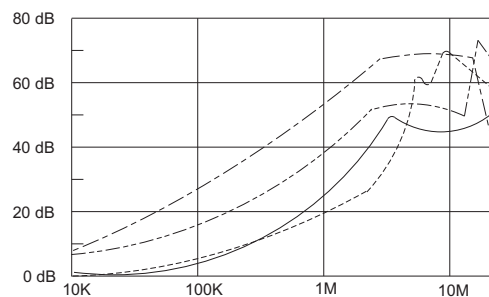
# ELECTRICAL SCHEMATIC



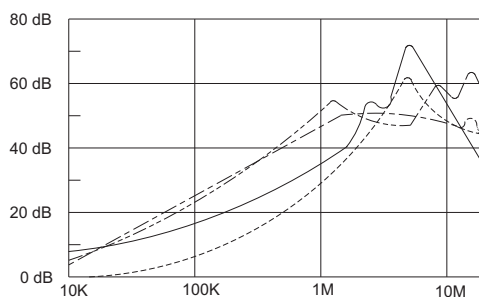
XXDBXX5B

# INSERTION LOSS (TYPICAL)

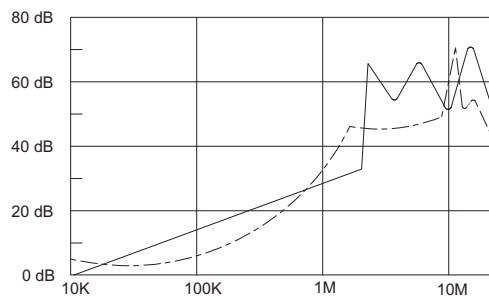
02DBAG5-----COMMON MODE -----DIFF. MODE  
03DBAG5-----COMMON MODE -----DIFF. MODE



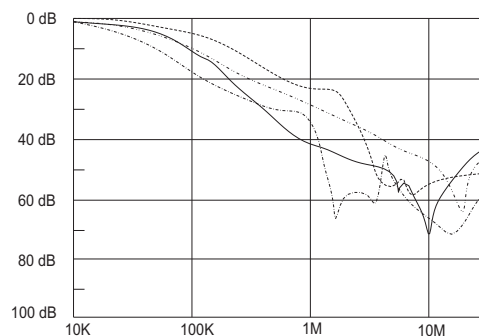
05DBAG5-----COMMON MODE -----DIFF. MODE  
10DBAG5-----COMMON MODE -----DIFF. MODE



20DBAG5-----COMMON MODE -----DIFF. MODE

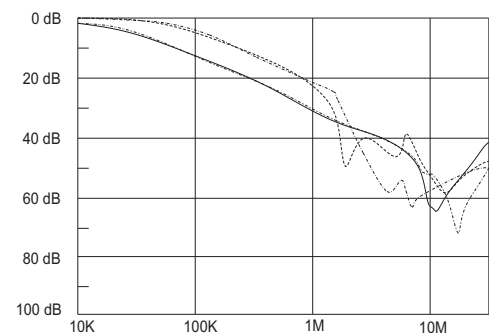


20DBC5B -----COMMON MODE -----DIFF. MODE  
20DBCS5B -----COMMON MODE -----DIFF. MODE  
30DBCS5B -----COMMON MODE -----DIFF. MODE



12DBBG5B -----COMMON MODE -----DIFF. MODE

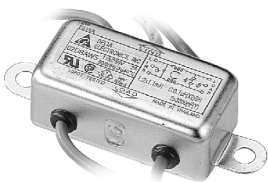
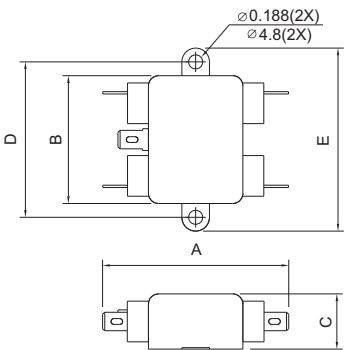
16DBC5B -----COMMON MODE -----DIFF. MODE  
16DBCW5B -----COMMON MODE -----DIFF. MODE



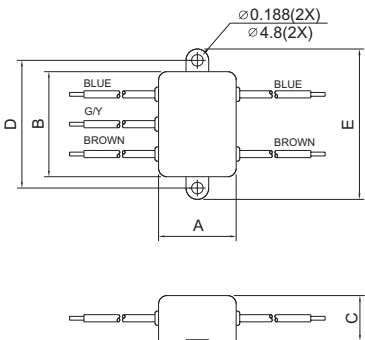
MECHANICAL CONSTRUCTION



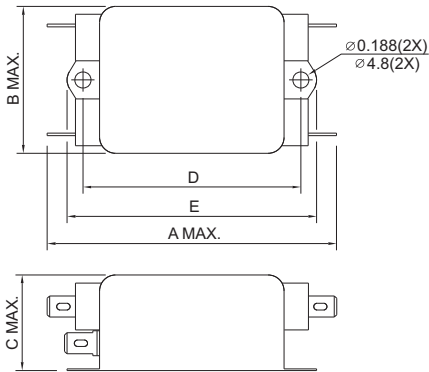
AG5



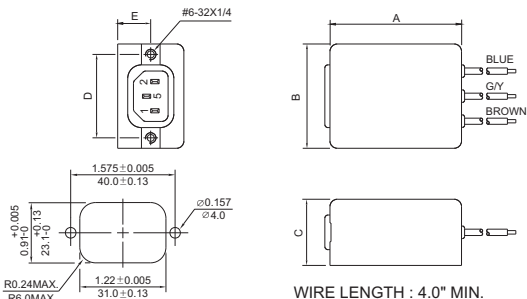
AW5



CG5



DW3S



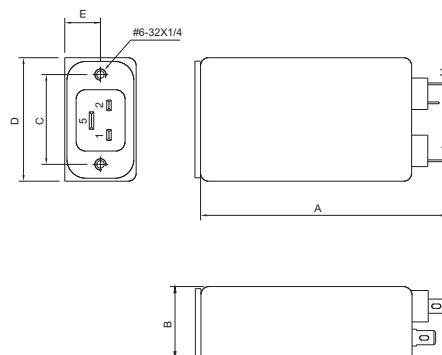
SUGGESTED MOUNTING CUTOUT

UNIT: INCH  
mm

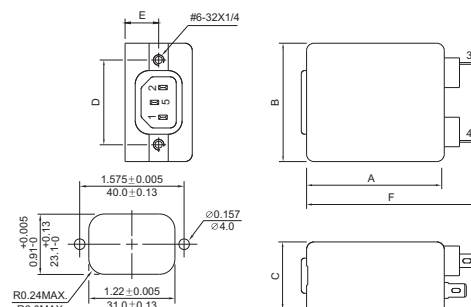
## MECHANICAL CONSTRUCTION



DG3



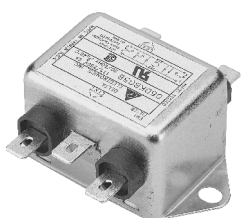
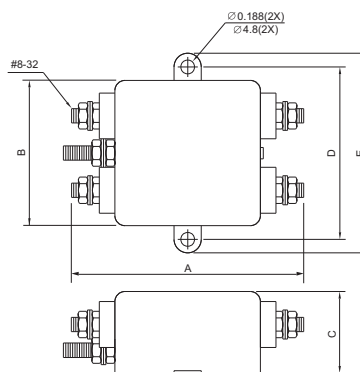
DG3S



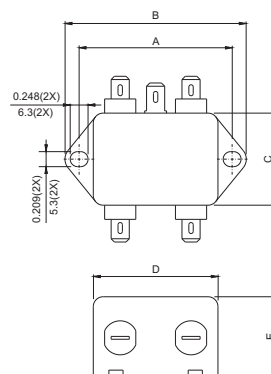
SUGGESTED MOUNTING CUTOUT



AS5



BG5B  
(option wire style)



## MECHANICAL CONSTRUCTION



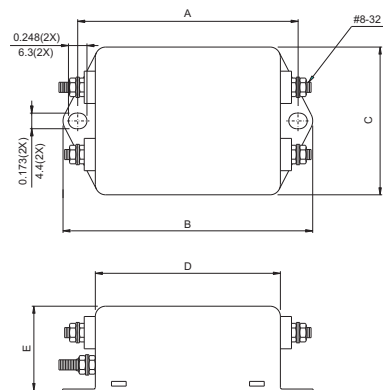
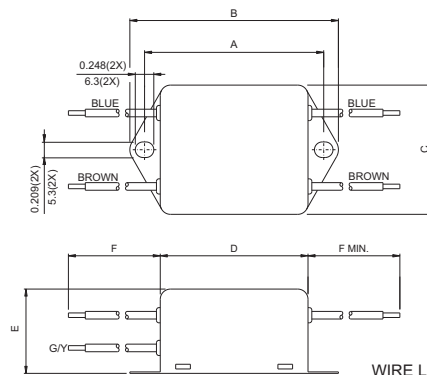
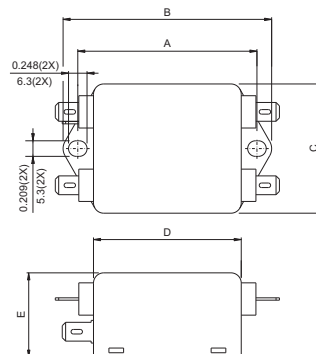
CG5B



CW5B



CS5B



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

# Mouser Electronics

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[03DBAG5](#) [03DBAW5](#) [20DBAG5](#) [10DBAW5](#)