

## INTRODUCTION

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

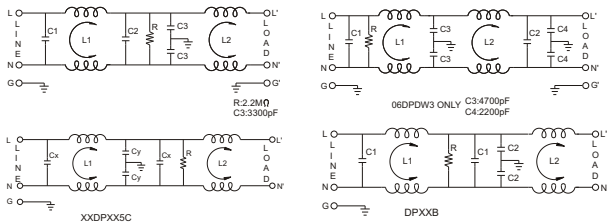
## COMPONENTS

| PART NO. | C1 (uF) | C2 (uF) | L1 (mH) | L2 (mH) |
|----------|---------|---------|---------|---------|
| 03DPCG5S | 0.33    | 0.33    | 10      | 10      |
| 03DPCW5S |         |         |         |         |
| 03DPDG3S |         |         | 6.5     | 4.5     |
| 03DPDW3S |         |         |         |         |
| 06DPCG5  | 0.47    | 0.47    | 2.7     | 14      |
| 06DPCW5  |         |         | 2.7     | 14      |
| 06DPDW3  |         |         | 8.0     | 2.83    |
| 10DPCG5  |         |         | 0.66    | 5       |

| PART NO.         | C1 (uF) | C2 (pF) | L1 (mH) | L2 (mH) | R (K) |
|------------------|---------|---------|---------|---------|-------|
| 03DPCG5B/W5B     | 0.47    | 4700    | 9.8     | 9.8     | 470   |
| 06DPCG5B/W5B     | 1.0     |         | 7.8     | 7.8     | 220   |
| 12DPCG5B/W5B     |         |         | 3.25    | 3.25    |       |
| 16DPGG5B/W5B/S5B |         |         | 2.8     | 2.8     |       |

| PART NO. | Cx (uF) | L1 (mH) | L2 (mH) | Cy (pF) | R (Ω) |
|----------|---------|---------|---------|---------|-------|
| 03DPCG5C | 0.22    | 2.5     | 2.5     | 4700    | 1.0M  |
| 03DPCW5C |         |         |         |         |       |
| 06DPCG5C |         | 0.97    | 0.97    |         |       |
| 06DPCW5C |         |         |         |         |       |
| 12DPCG5C | 0.47    | 0.58    | 0.58    |         | 470K  |
| 12DPCW5C |         |         |         |         |       |
| 16DPCG5C | 0.33    | 0.65    | 0.65    |         | 1.0M  |
| 16DPCW5C |         |         |         |         |       |
| 16DPCS5C |         |         |         |         |       |
| 20DPCG5C |         |         |         |         |       |
| 20DPCS5C | 1.0     | 0.60    | 0.60    | 220K    |       |
| 30DPGS5C |         |         |         |         | 10000 |

## ELECTRICAL SCHEMATIC



## SPECIFICATIONS

- Maximum leakage current each
  - line-to-ground @ 115VAC 60Hz: 0.4mA (4700pF)
  - @ 250VAC 50Hz: 0.8mA (4700pF)
  - @ 115VAC 60Hz: 1.0mA (10000pF)
  - @ 250VAC 50Hz: 2.0mA (10000pF)
- Hipot rating (one minute)
  - line-to-ground: 2250VDC
  - line-to-line: 1450VDC
- Operating frequency: 50/60Hz
- Rated voltage: 115/250VAC

## 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(S)                                    | 50            | 70  | 70  | 60  | 50 | 40 |
| 3A                                       | 60            | 70  | 70  | 65  | 55 | 40 |
| 6A                                       | 58            | 70  | 65  | 65  | 60 | 50 |
| 10A                                      | 48            | 65  | 60  | 45  | 35 | 20 |
| •06DPDW3                                 | 55            | 60  | 60  | 60  | 60 | 60 |
| 03DPCG5B/W5B                             | 60            | 70  | 65  | 50  | 45 | 25 |
| 06DPCG5B/W5B                             | 50            | 60  | 60  | 60  | 60 | 35 |
| 12DPCG5B/W5B                             | 45            | 60  | 65  | 65  | 65 | 45 |
| 16DPGG5B/W5B/S5B                         | 20            | 35  | 40  | 50  | 40 | 30 |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM |               |     |     |     |    |    |
| 3A(S)                                    | 35            | 48  | 55  | 55  | 55 | 45 |
| 3A                                       | 36            | 55  | 60  | 55  | 55 | 45 |
| 6A                                       | 40            | 65  | 65  | 70  | 70 | 50 |
| 10A                                      | 30            | 40  | 45  | 55  | 60 | 25 |
| 03DPCG5B/W5B                             | 30            | 45  | 45  | 45  | 45 | 25 |
| •06DPDW3                                 | 40            | 60  | 60  | 60  | 60 | 60 |
| 06DPCG5B/W5B                             | 45            | 50  | 50  | 55  | 55 | 45 |
| 12DPCG5B/W5B                             | 45            | 45  | 50  | 50  | 50 | 50 |
| 16DPGG5B/W5B/S5B                         | 7             | 55  | 50  | 50  | 50 | 40 |

- Maximum leakage current
  - 115VAC 60Hz: 0.5mA
  - 250VAC 50Hz: 1.0mA

| COMMON MODE (L-G) IN 50 OHM SYSTEM       |                  |               |     |     |     |    |    |
|--|------------------|---------------|-----|-----|-----|----|----|
| CURRENT RATING                           | STYLE            | FREQUENCY-MHz |     |     |     |    |    |
|  |                  | .15           | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A                                       | CG5C, CW5C       | 45            | 60  | 60  | 55  | 45 | 35 |
| 6A                                       | CG5C, CW5C       | 30            | 50  | 60  | 55  | 50 | 35 |
| 12A                                      | CG5C, CW5C       | 15            | 25  | 35  | 55  | 55 | 35 |
| 16A                                      | CG5C, CW5C, CS5C | 20            | 35  | 45  | 60  | 50 | 35 |
| 20A                                      | CG5C, CS5C       | 15            | 40  | 45  | 50  | 50 | 40 |
| 30A                                      | GS5C             | 10            | 30  | 35  | 55  | 45 | 30 |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM |                  |               |     |     |     |    |    |
| 3A                                       | CG5C, CW5C       | 12            | 45  | 45  | 45  | 45 | 45 |
| 6A                                       | CG5C, CW5C       | 8             | 45  | 45  | 45  | 45 | 45 |
| 12A                                      | CG5C, CW5C       | 12            | 40  | 40  | 35  | 35 | 40 |
| 16A                                      | CG5C, CW5C, CS5C | 12            | 40  | 40  | 45  | 45 | 50 |
| 20A                                      | CG5C, CS5C       | 12            | 45  | 45  | 40  | 35 | 50 |
| 30A                                      | GS5C             | 18            | 45  | 50  | 40  | 40 | 40 |

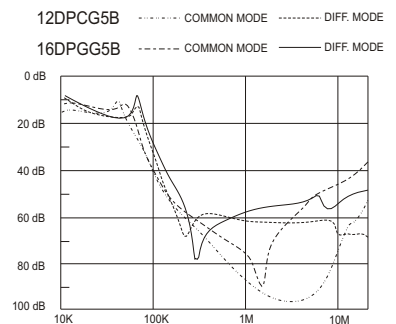
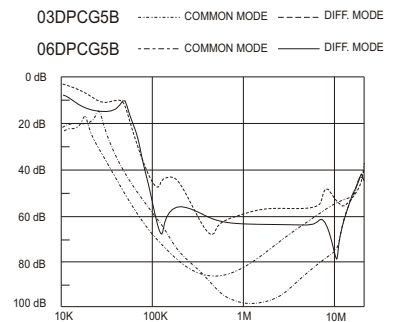
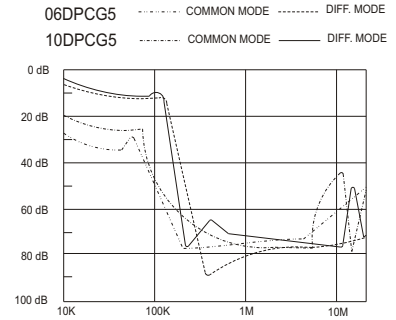
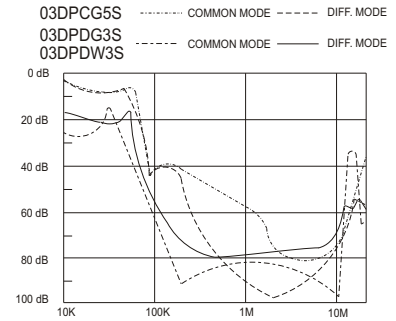
## SERIES DIMENSIONS

| CURRENT RATING | DIMENSIONS IN INCHES/mm |                      |                      |                     |                       |                     |
|----------------|-------------------------|----------------------|----------------------|---------------------|-----------------------|---------------------|
|                | STYLE                   | A                    | B                    | C                   | D                     | E                   |
| 3A             | CG5S                    | $\frac{2.94}{74.7}$  | $\frac{3.36}{85.3}$  | $\frac{2.04}{51.8}$ | $\frac{2.52}{64.0}$   | $\frac{1.77}{45.0}$ |
| 3A             | CW5S                    |                      |                      |                     |                       |                     |
| 3A             | DG3S                    | $\frac{2.55}{64.8}$  | $\frac{2.04}{51.8}$  | $\frac{1.77}{45.0}$ | $\frac{1.575}{40.0}$  | $\frac{0.63}{16.0}$ |
| 3A             | DW3S                    |                      |                      |                     |                       |                     |
| 6A             | CG5                     |                      |                      |                     |                       |                     |
| 6A             | CW5                     | $\frac{5.63}{143.0}$ | $\frac{6.02}{152.9}$ | $\frac{2.02}{51.3}$ | $\frac{5.27}{133.86}$ | $\frac{2.77}{70.4}$ |
| 10A            | CG5                     |                      |                      |                     |                       |                     |
| 6A             | DW3                     | $\frac{3.10}{78.7}$  | $\frac{2.08}{52.8}$  | $\frac{1.79}{45.5}$ | $\frac{1.575}{40.0}$  | $\frac{0.63}{16.0}$ |

| CURRENT RATING | DIMENSIONS IN INCHES/mm |                      |                      |                      |                      |                     |                             |                     |
|----------------|-------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|-----------------------------|---------------------|
|                | STYLE                   | A                    | B                    | C                    | D                    | E                   | F                           | G                   |
| 3A             | CG5B, CW5B              | $\frac{2.95}{75.0}$  | $\frac{3.34}{84.8}$  | $\frac{2.05}{52.0}$  | $\frac{2.58}{65.6}$  | $\frac{1.54}{39.2}$ | $\frac{4\text{min}}{101.6}$ |                     |
| 6A             | CG5B, CW5B              | $\frac{4.06}{103.0}$ | $\frac{4.49}{114.0}$ | $\frac{2.22}{56.5}$  | $\frac{3.76}{95.5}$  | $\frac{1.83}{46.4}$ |                             |                     |
| 12A            | CG5B, CW5B              | $\frac{5.63}{143.0}$ | $\frac{6.02}{152.9}$ | $\frac{2.05}{52.0}$  | $\frac{5.30}{134.7}$ | $\frac{1.78}{45.3}$ |                             |                     |
| 16A            | GS5B                    | $\frac{3.89}{99.0}$  | $\frac{4.31}{109.5}$ | $\frac{4.72}{120.0}$ | $\frac{2.0}{51.0}$   | $\frac{2.62}{66.5}$ | $\frac{3.38}{86.0}$         | $\frac{2.28}{58.0}$ |

| CURRENT RATING | DIMENSIONS IN INCHES/mm |                      |                       |                      |                       |                      |                             |                     |
|----------------|-------------------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------------|---------------------|
|                | STYLE                   | A                    | B                     | C                    | D                     | E                    | F                           | G                   |
| 3A             | CG5C, CW5C              | $\frac{3.0}{75.0}$   | $\frac{3.34}{84.8}$   | $\frac{2.05}{52.0}$  | $\frac{2.58}{65.6}$   | $\frac{1.54}{39.2}$  | $\frac{4\text{min}}{101.6}$ |                     |
| 6A             | CG5C, CW5C              | $\frac{5.63}{143.0}$ | $\frac{6.02}{152.91}$ | $\frac{2.02}{51.31}$ | $\frac{5.27}{133.86}$ | $\frac{2.27}{57.66}$ |                             |                     |
| 12A            | CG5C, CW5C              | $\frac{3.0}{75.0}$   | $\frac{3.34}{84.8}$   | $\frac{2.05}{52.0}$  | $\frac{2.58}{65.6}$   | $\frac{1.15}{29.2}$  |                             |                     |
| 20A            | CG5C, CW5C              | $\frac{4.05}{103}$   | $\frac{4.49}{114}$    | $\frac{2.22}{56.5}$  | $\frac{3.76}{95.5}$   | $\frac{1.86}{46.4}$  |                             |                     |
| 30A            | GS5C                    | $\frac{3.90}{99.0}$  | $\frac{4.31}{109.5}$  | $\frac{4.72}{120.0}$ | $\frac{2.01}{51.0}$   | $\frac{2.62}{66.5}$  | $\frac{3.39}{86.0}$         | $\frac{2.28}{58.0}$ |

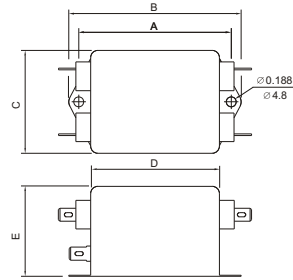
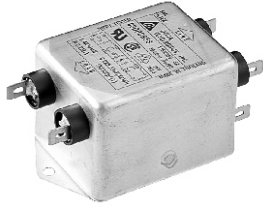
## INSERTION LOSS (TYPICAL)



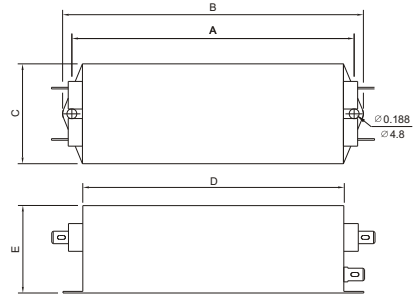
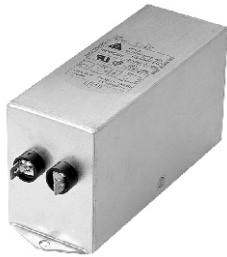
GENERAL PURPOSE TWO-STAGE FILTERS

# MECHANICAL CONSTRUCTION

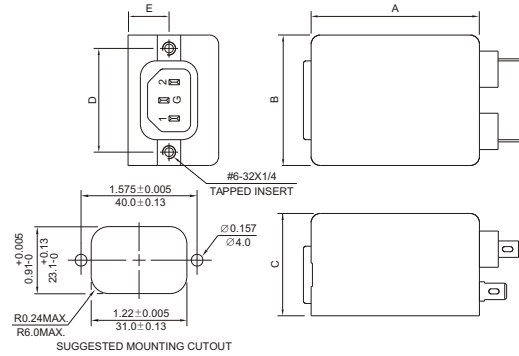
CG5S



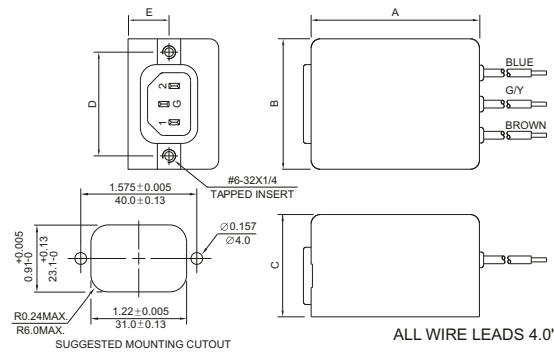
CG5



DG3S

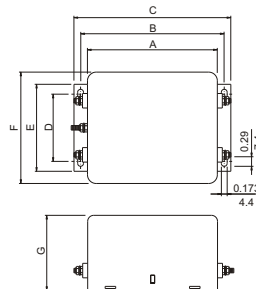
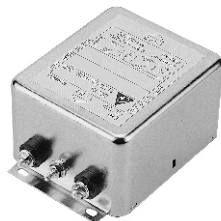


DW3/DW3S



ALL WIRE LEADS 4.0" LONG MIN.

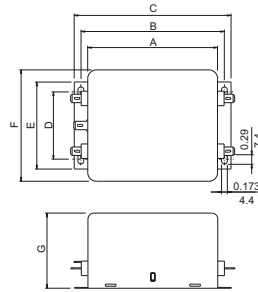
GS5B/GS5C



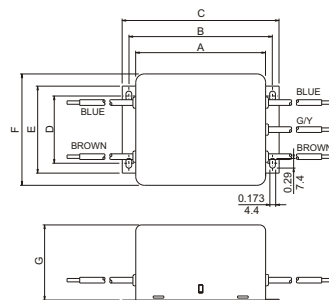
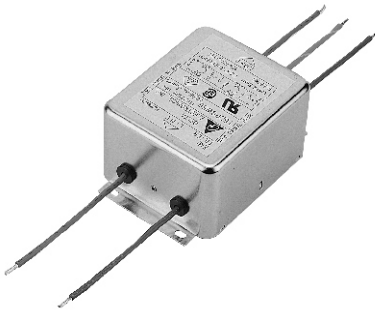
GENERAL PURPOSE TWO-STAGE FILTERS

# MECHANICAL CONSTRUCTION

GG5B

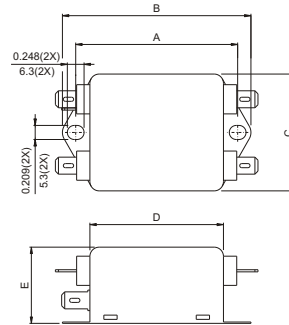
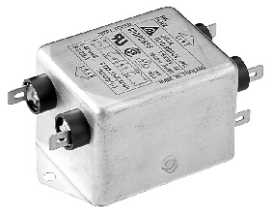


GW5B

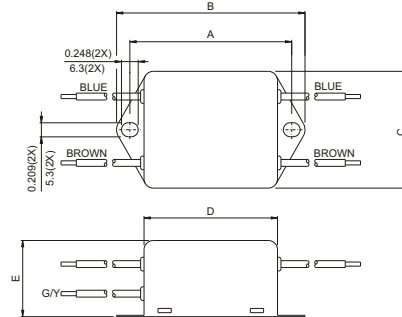


ALL WIRE LEADS 4.0" LONG MIN.

CG5B/CG5C

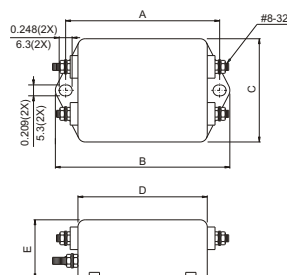


CW5/CW5B/CW5S/CW5C



ALL WIRE LEADS 4.0" LONG MIN.

CS5C



UNIT: INCH  
mm



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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