# DP SERIES SWITCHING TRANSIENT FILTERS

## INTRODUCTION

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

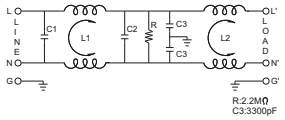
## COMPONENTS

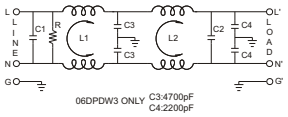
| PART NO. | C1 (uF) | C2 (uF) | L1 (mH) | L2 (mH) |
|---|---|---|---|---|
| 03DPCG5S | 0.33 | 0.33 | 10 | 10 |
| 03DPCW5S | | | | |
| 03DPDG3S | | | 6.5 | 4.5 |
| 03DPDW3S | | | | |
| 06DPCG5 | 0.47 | 0.47 | 2.7 | 14 |
| 06DPCW5 | | | 2.7 | 14 |
| 06DPDW3 | 0.66 | | 8.0 | 2.83 |
| 10DPCG5 | 0.47 | |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

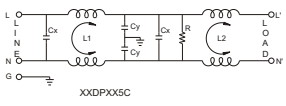
| PART NO. | C1 (uF) | C2 (pF) | L1 (mH) | L2 (mH) | R (K) |
|---|---|---|---|---|---|
| 03DPCG5B/W5B | 0.47 | 4700 | 9.8 | 9.8 | 470 |
| 06DPCG5B/W5B | 1.0 | | 7.8 | 7.8 | 220 |
| 12DPCG5B/W5B | | | 3.25 | 3.25 | |
| 16DPGG5B/W5B/S5B | | | 2.8 | 2.8 | |

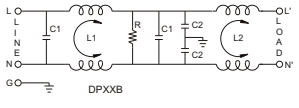
| PART NO. | Cx (uF) | L1 (mH) | L2 (mH) | Cy (pF) | R ( Ω ) |
|---|---|---|---|---|---|
| 03DPCG5C | 0.22 | 2.5 | 2.5 | 4700 | 1.0M |
| 03DPCW5C | | | | | |
| 06DPCG5C | | 0.97 | 0.97 | | |
| 06DPCW5C | | | | | |
| 12DPCG5C | 0.47 | 0.58 | 0.58 | | 470K |
| 12DPCW5C | | | | | |
| 16DPCG5C | 0.33 | 0.65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

## ELECTRICAL SCHEMATIC




## SPECIFICATIONS

1.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)
2.Hipot rating (one minute)
line-to-ground: 2250VDC
line-to-line: 1450VDC
3.Operating frequency: 50/60Hz
4.Rated voltage: 115/250VAC

## MINIMUM INSERTION LOSS IN dB

| COMMON MODE (L-G) IN 50 OHM SYSTEM | | | | | | |
|---|---|---|---|---|---|---|
| CURRENT | FREQUENCY-MHz | | | | | |
| RATING | .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
a. 115VAC 60Hz: 0.5mH
b. 250VAC 50Hz: 1.0mH

| COMMON MODE (L-G) IN 50 OHM SYSTEM | | | | | | | |
|---|---|---|---|---|---|---|---|
| CURRENT | STYLE | FREQUENCY-MHz | | | | | |
| RATING | | .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 |

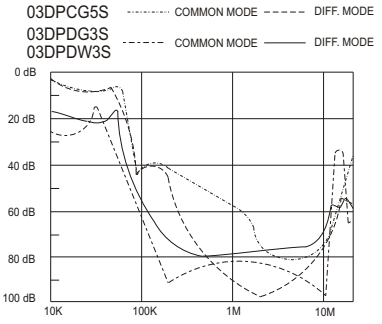
## SERIES DIMENSIONS

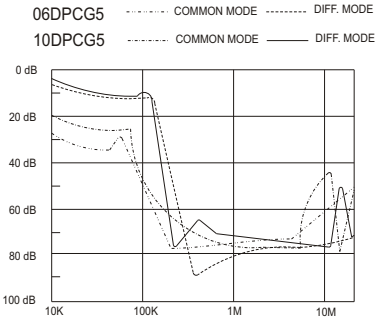
| CURRENT RATING | DIMENSIONS IN INCHES/mm | | | | | |
|---|---|---|---|---|---|---|
| | STYLE | A | B | C | D | E |
| 3A | CG5S | 2.94 / 74.7 | 3.36 / 85.3 | 2.04 / 51.8 | 2.52 / 64.0 | 1.77 / 45.0 |
| 3A | CW5S | | | | | |
| 3A | DG3S | 2.55 / 64.8 | 2.04 / 51.8 | 1.77 / 45.0 | 1.575 / 40.0 | 0.63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

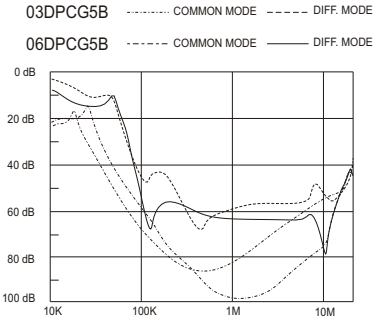
| CURRENT RATING | DIMENSIONS IN INCHES/mm | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | STYLE | A | B | C | D | E | F | G |
| 3A | CG5B, CW5B | 2.95 / 75.0 | 3.34 / 84.8 | 2.05 / 52.0 | 2.58 / 65.6 | 1.54 / 39.2 | 4min / 101.6 | |
| 6A | CG5B, CW5B | 4.06 / 103.0 | 4.49 / 114.0 | 2.22 /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

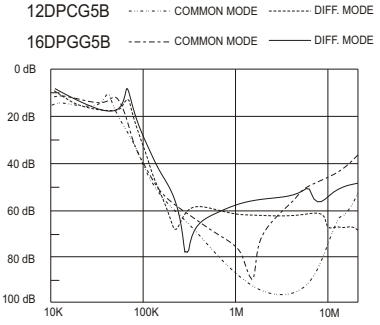
| CURRENT RATING | DIMENSIONS IN INCHES/mm | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | STYLE | A | B | C | D | E | F | G |
| 3A | CG5C, CW5C | 3.0 / 75.0 | 3.34 / 84.8 | 2.05 / 52.0 | 2.58 / 65.6 | 1.54 / 39.2 | 4min / 101.6 | |
| 6A | CG5C, CW5C | 5.63 / 143.0 | 6.02 / 152.91 | 2.02 /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

## INSERTION LOSS (TYPICAL)



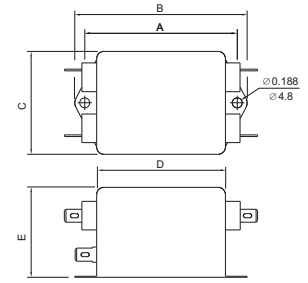



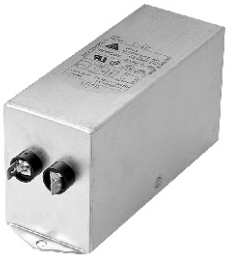



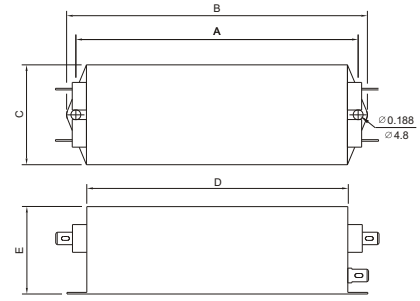
## MECHANICAL CONSTRUCTION

CG5S

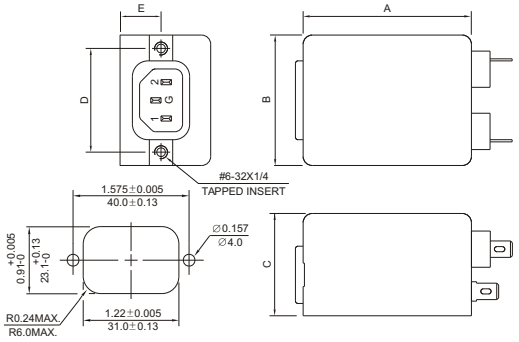


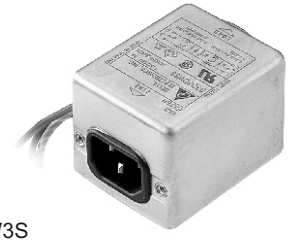



CG5

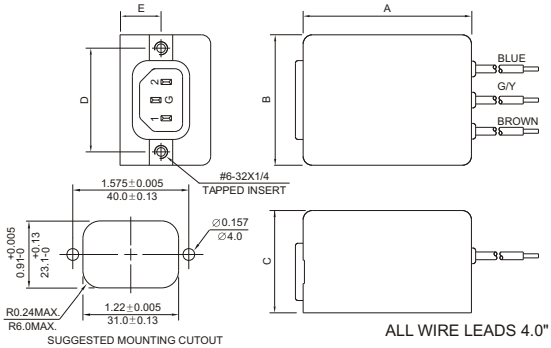


DG3S

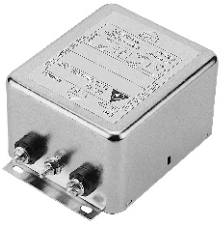


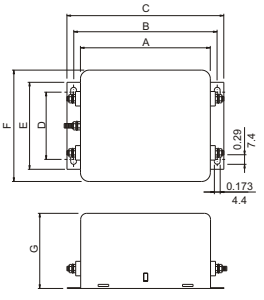
DW3/DW3S




ALL WIRE LEADS 4.0" LONG MIN.



GS5B/GS5C

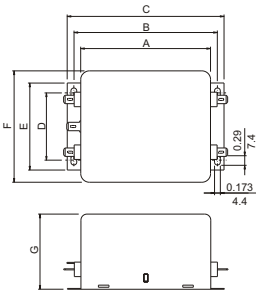


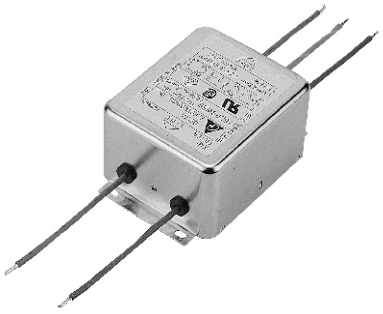



UNIT: INCH / mm

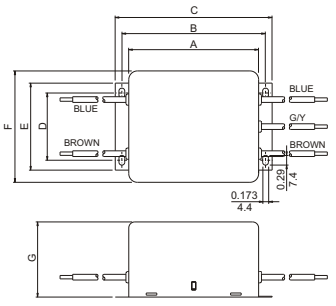
## MECHANICAL CONSTRUCTION

GG5B



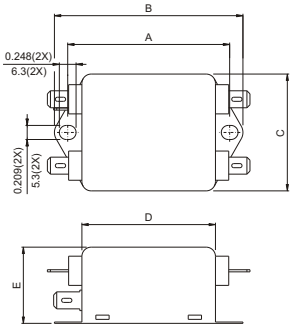



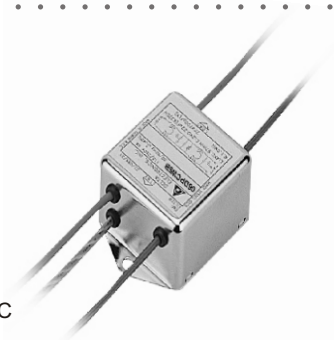
GW5B



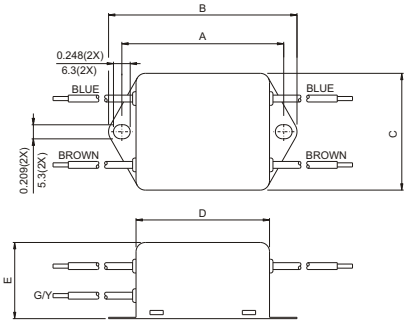

ALL WIRE LEADS 4.0" LONG MIN.

CG5B/CG5C

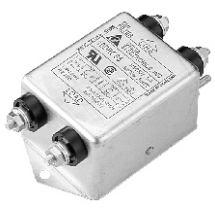


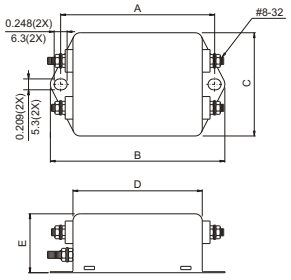
CW5/CW5B/CW5S/CW5C




ALL WIRE LEADS 4.0" LONG MIN.



CS5C




UNIT: INCH / mm

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

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- *Подбор аналогов.*
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- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

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