

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 |

GENERAL PURPOSE TWO-STAGE FILTERS

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 | $\frac{3.90}{99.0}$ | $\frac{4.31}{109.5}$ | $\frac{4.72}{120.0}$ | $\frac{2.01}{51.0}$ | $\frac{2.62}{66.5}$ | $\frac{3.39}{86.0}$ | $\frac{2.28}{58.0}$ |

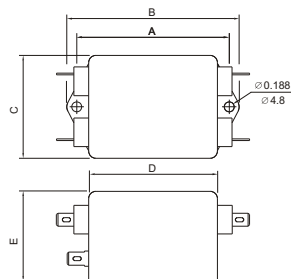
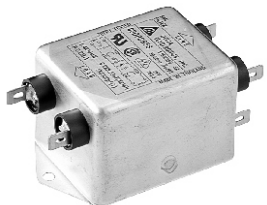
INSERTION LOSS (TYPICAL)



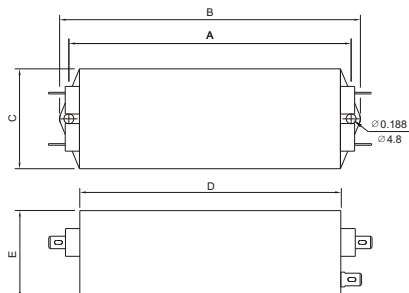
GENERAL PURPOSE TWO-STAGE FILTERS

MECHANICAL CONSTRUCTION

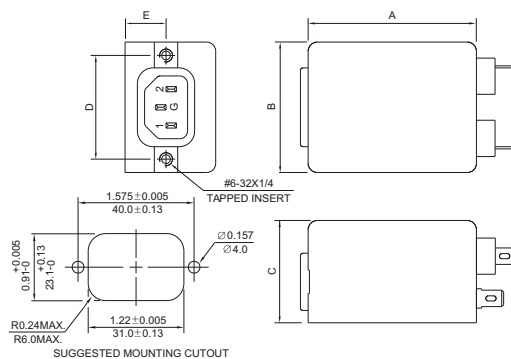
CG5S



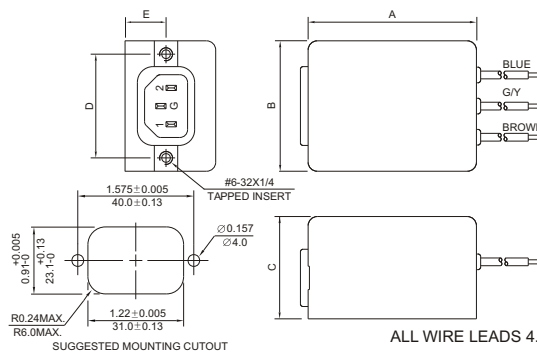
CG5



DG3S

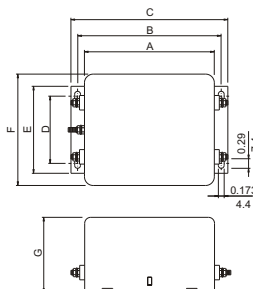


DW3/DW3S



ALL WIRE LEADS 4.0" LONG MIN.

GS5B/GS5C



GENERAL PURPOSE TWO-STAGE FILTERS

MECHANICAL CONSTRUCTION

GG5B

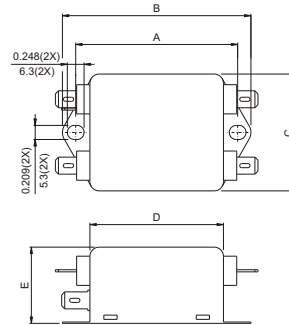


GW5B



ALL WIRE LEADS 4.0" LONG MIN.

CG5B/CG5C

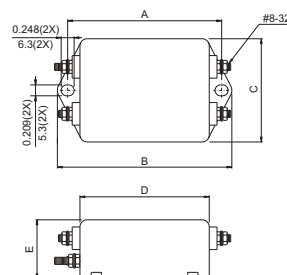


CW5/CW5B/CW5S/CW5C



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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