

**DP SERIES****TWO-STAGE PERFORMANCE FILTERS****INTRODUCTIONS**

1. Applications for UL 544 & UL 2601 health care equipment.
2. Design as a general purpose filter providing effective EMI suppression.
3. All part numbers are UL recognized, CSA certified and VDE approved.

**COMPONENTS**

| PART NO.                     | Cx (uF) | L1 (mH) | L2 (mH) | R (Ohm) |
|------------------------------|---------|---------|---------|---------|
| 03DPCG5BM/W5BM               | 0.47    | 9.8     | 9.8     | 470K    |
| 06DPCG5BM/W5BM               | 1.0     | 7.8     | 7.8     | 220K    |
| 12DPCG5BM/W5BM               |         | 3.25    | 3.25    |         |
| 16DPGG5BM/W5BM/S5BM          |         | 2.8     | 2.8     |         |
| 03DPGG5CM/W5CM               | 0.22    | 2.5     | 2.5     | 1.0M    |
| 06DPCG5CM/W5CM               | 0.22    | 0.97    | 0.97    | 1.0M    |
| 12DPCG5CM/W5CM               | 0.47    | 0.58    | 0.58    | 470K    |
| 16DPCG5CM/W5CM/S5CM          | 0.33    | 0.65    | 0.65    | 1.0M    |
| 20DPCG5CM/S5CM/<br>30DPGS5CM | 1.0     | 0.60    | 0.60    | 220K    |

**SERIES DIMENSIONS**

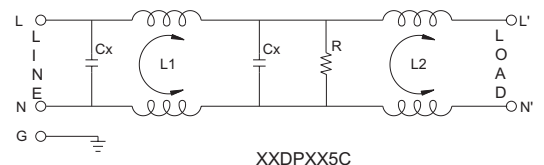
| CURRENT RATING | STYLE               | DIMENSIONS IN INCHES/mm |               |               |               |              |               |              |
|----------------|---------------------|-------------------------|---------------|---------------|---------------|--------------|---------------|--------------|
|                |                     | A                       | B             | C             | D             | E            | F             | G            |
| 3A             | CG5CM, CW5CM        | 2.40<br>61.00           | 2.81<br>71.5  | 1.79<br>45.5  | 2.02<br>51.3  | 1.18<br>30.0 | 3.94<br>100.0 | -            |
| 6A             | CG5CM, CW5CM        |                         |               |               |               |              | 3.94<br>100.0 |              |
| 12A            | CG5CM, CW5CM        |                         |               |               |               |              | 3.94<br>100.0 |              |
| 16A            | CG5CM, CW5CM, CS5CM | 2.95<br>75.00           | 3.34<br>84.8  | 2.04<br>51.8  | 2.52<br>64.0  | 1.54<br>39.2 | 3.94<br>100.0 |              |
| 3A             | CG5BM/W5BM          |                         |               | 2.05<br>52.0  | 2.58<br>65.6  | -            |               |              |
| 6A             | CG5BM/W5BM          | 4.06<br>103.00          | 4.49<br>114.0 | 2.22<br>56.5  | 3.76<br>95.5  | 1.83<br>46.4 | -             |              |
| 12A            | CG5BM/W5BM          | 5.63<br>143.0           | 5.02<br>127.9 | 2.05<br>52.0  | 5.30<br>134.7 | 1.78<br>45.3 |               |              |
| 16A            | CG5BM/W5BM/S5BM     | 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 |
| 20A            | CG5CM, CS5CM        | 4.06<br>103.00          | 4.49<br>114.0 | 2.22<br>56.5  | 3.74<br>95.0  | 1.83<br>46.4 | -             |              |
| 30A            | GS5CM               | 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 |

**SPECIFICATIONS**

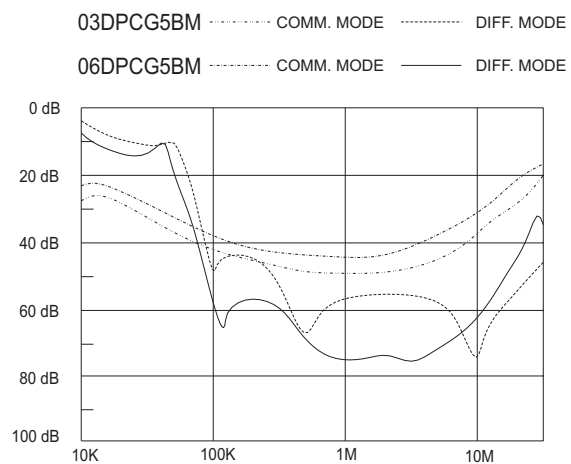
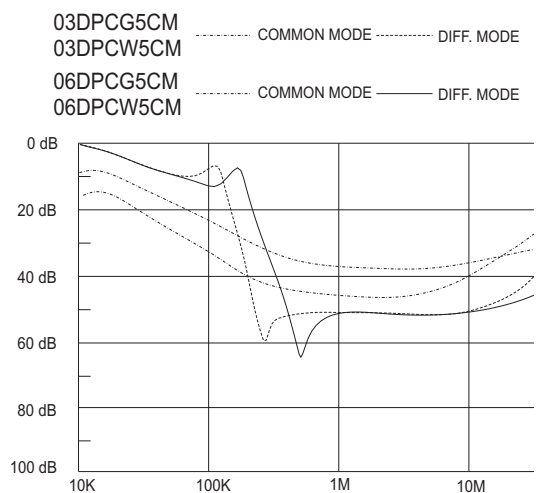
1. Maximum leakage current each line-to-ground @ 115VAC 60Hz: 2uA  
@ 250VAC 50Hz: 5uA
2. Hipot rating (one minute)  
line-to-ground: 2250VDC  
line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

**MINIMUM INSERTION LOSS IN dB**

| COMMON MODE (L-G) IN 50 OHM SYSTEM       |               |     |     |     |    |    |
|------------------------------------------|---------------|-----|-----|-----|----|----|
| PART NUMBER                              | FREQUENCY-MHz |     |     |     |    |    |
|                                          | .15           | .50 | 1.0 | 5.0 | 10 | 30 |
| 03DPCG5BM/W5BM                           | 60            | 70  | 65  | 50  | 45 | 25 |
| 06DPCG5BM/W5BM                           | 50            | 60  | 60  | 60  | 60 | 35 |
| 12DPCG5BM/W5BM                           | 25            | 25  | 25  | 25  | 25 | 15 |
| 16DPGG5BM/W5BM/S5BM                      | 20            | 35  | 40  | 50  | 40 | 30 |
| 03DPCG5CM/W5CM                           | 25            | 35  | 35  | 35  | 30 | 20 |
| 06DPCG5CM/W5CM                           | 20            | 25  | 25  | 25  | 25 | 20 |
| 12DPCG5CM/W5CM                           | 10            | 15  | 15  | 15  | 15 | 10 |
| 16DPCG5CM/W5CM/S5CM                      | 15            | 15  | 15  | 15  | 15 | 12 |
| 20DPCG5CM/S5CM/<br>30DPGS5CM             | 10            | 25  | 15  | 15  | 10 | 8  |
|                                          | 10            | 12  | 15  | 15  | 10 | 8  |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM |               |     |     |     |    |    |
| 03DPCG5BM/W5BM                           | 30            | 45  | 45  | 45  | 45 | 25 |
| 06DPCG5BM/W5BM                           | 45            | 50  | 50  | 55  | 55 | 45 |
| 12DPCG5BM/W5BM                           | 45            | 50  | 50  | 50  | 50 | 30 |
| 16DPGG5BM/W5BM/S5BM                      | 7             | 55  | 50  | 50  | 50 | 40 |
| 03DPCG5CM/W5CM                           | 10            | 40  | 40  | 40  | 40 | 30 |
| 06DPCG5CM/W5CM                           | 8             | 45  | 40  | 40  | 40 | 35 |
| 12DPCG5CM/W5CM                           | 12            | 35  | 35  | 30  | 30 | 25 |
| 16DPCG5CM/W5CM/S5CM                      | 12            | 40  | 35  | 35  | 35 | 30 |
| 20DPCG5CM/S5CM/<br>30DPGS5CM             | 15            | 40  | 40  | 35  | 30 | 20 |
|                                          | 18            | 45  | 50  | 40  | 35 | 25 |

**ELECTRICAL SCHEMATIC**

## INSERTION LOSS (TYPICAL)



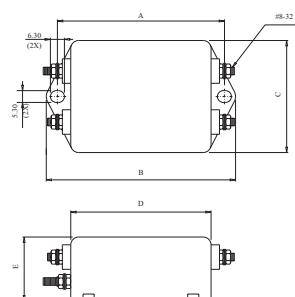
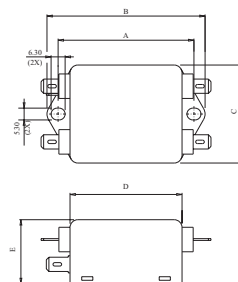
## MECHANICAL CONSTRUCTION



CG5BM/CG5CM

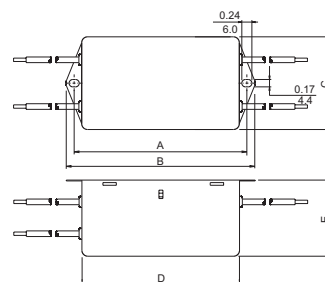


CS5CM



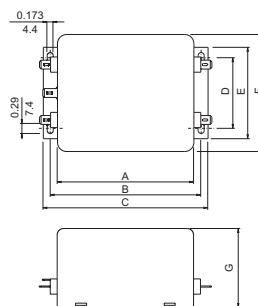
## MECHANICAL CONSTRUCTION

CW5CM, CW5BM

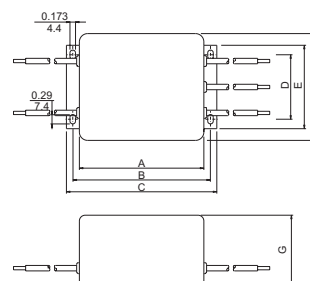


ALL WIRE LEADS 4.0" LONG MIN.

GG5BM

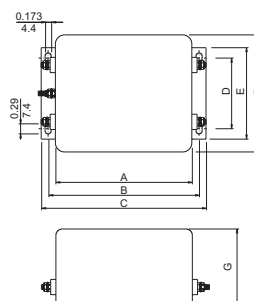


GW5BM



ALL WIRE LEADS 4.0" LONG MIN.

GS5BM/GS5CM



# Mouser Electronics

Authorized Distributor

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