



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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INTRODUCTIONS

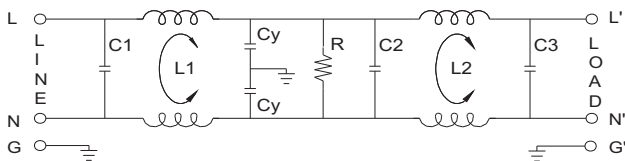
1. Two-stage filters provide high performance in suppressing both line-to-line and line-to-ground noise.
2. All part numbers are UL recognized, CSA certified and VDE approved.

COMPONENTS

| PART NO. | C1,C2,C3(uF) | L1,L2(mH) |
|----------|--------------|-----------|
| 02DRCG5 | 0.1 | 2.4 |
| 02DRCW5 | | |
| 03DRCG5 | 0.22 | 1.7 |
| 03DRCW5 | | |
| 03DRDG3S | | 2.8 |
| 03DRDW3S | | |
| 05DRCG5 | | 1.6 |
| 05DRCW5 | | |
| 05DRDG3S | | 1.3 |
| 05DRDW3S | | |
| 10DRCG5 | | 1.0 |
| 10DRCS5 | | |
| 10DRCW5 | | |
| *15DRCG5 | 0.1 | 0.9 |
| •20DRGG5 | 0.22 | 1.0 |
| •20DRGS5 | | |

R: 2.2MΩ, Cy: 3300pF.
 * No safety approval yet, R: 1.0MΩ
 • VDE approved to 16A/250VAC, C2: 0.33 uF

ELECTRICAL SCHEMATIC



SPECIFICATIONS

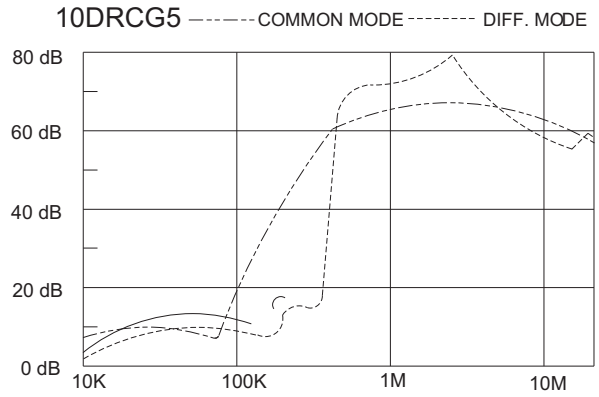
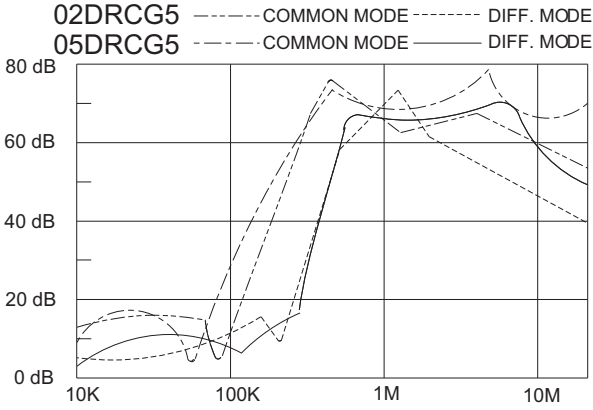
1. Maximum leakage current each line-to-ground @ 115VAC 60Hz: 0.25mA @ 250VAC 50Hz: 0.45mA
2. Hipot rating (one minute) line-to-ground: 2250VDC line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

SERIES DIMENSIONS

| PART NO. | DIMENSIONS IN INCHES/mm | | | | | | |
|----------|-------------------------|------|------|------|-------|-------|------|
| | A | B | C | D | E | | |
| 02DRCG5 | 3.25 | 1.82 | 1.15 | 2.38 | 2.77 | | |
| | 82.5 | | | | 70.4 | | |
| 02DRCW5 | 2.08 | 46.2 | | 2.77 | 60.5 | 70.4 | |
| | 52.8 | | | | | 70.4 | |
| 03DRCG5 | 3.75 | 2.02 | | 29.2 | 2.94 | 3.34 | |
| | 95.2 | 51.3 | | | | 84.8 | |
| 03DRCW5 | 2.58 | 2.04 | | | 74.7 | 2.94 | 84.8 |
| | 65.5 | 51.8 | | | | | 84.8 |
| 03DRDG3S | 3.14 | 2.02 | | | 1.28 | 1.575 | 0.61 |
| | 79.8 | | | | | | 15.5 |
| 03DRDW3S | 2.55 | | 51.3 | | 32.5 | 40.0 | 15.5 |
| | 64.8 | | | | | | 15.5 |
| 05DRCG5 | 3.75 | | 51.3 | | 1.15 | 2.94 | 3.34 |
| | 95.2 | | | | | | 84.8 |
| 05DRCW5 | 2.58 | | | 2.04 | 29.2 | 74.7 | 84.8 |
| | 65.5 | | | | | | 84.8 |
| 05DRDG3S | 3.14 | | | 2.02 | 1.27 | 1.575 | 0.61 |
| | 79.8 | | | | | | 15.5 |
| 05DRDW3S | 2.55 | 51.3 | | | 32.3 | 40.0 | 15.5 |
| | 64.8 | | | | | | 15.5 |
| 10DRCG5 | 3.75 | 51.3 | | | 1.52 | 2.94 | 3.34 |
| | 95.2 | | | | | | 84.5 |
| 10DRCS5 | 3.87 | | 98.3 | | 38.6 | 74.6 | 84.5 |
| | 2.50 | | | | | | 84.5 |
| 10DRCW5 | 63.5 | | 84.5 | | 84.5 | 84.5 | 84.5 |
| | 63.5 | | 84.5 | | 84.5 | 84.5 | 84.5 |
| 15DRCG5 | 3.75 | | 2.08 | 1.79 | 2.94 | 3.36 | |
| | 95.2 | | | | | 85.3 | |
| 20DRGG5 | 5.14 | | 3.33 | 1.52 | 3.75 | 4.14 | |
| | 130.5 | | | | | 105.1 | |
| 20DRGS5 | 130.5 | 84.6 | 38.6 | 95.3 | 105.1 | | |
| | 130.5 | | | | 105.1 | | |

GENERAL PURPOSE TWO-STAGE FILTERS

INSERTION LOSS (TYPICAL)



MINIMUM INSERTION LOSS IN dB

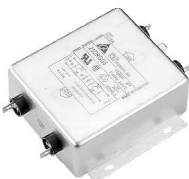
| COMMON MODE (L-G) IN 50 OHM SYSTEM | | | | | | |
|------------------------------------|---------------|-----|-----|-----|----|----|
| CURRENT RATING | FREQUENCY-MHz | | | | | |
| | .15 | .50 | 1.0 | 5.0 | 10 | 30 |
| 2A | 40 | 60 | 65 | 55 | 50 | 40 |
| 3, 5A | 40 | 60 | 65 | 65 | 60 | 45 |
| 3, 5A(S) | 38 | 60 | 65 | 55 | 45 | 40 |
| 10A | 30 | 60 | 65 | 50 | 45 | 40 |
| 15A | 23 | 45 | 50 | 45 | 40 | 30 |
| 20A | 20 | 35 | 40 | 50 | 55 | 40 |

| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM | | | | | | |
|------------------------------------------|----|----|----|----|----|----|
| 2A | 5 | 50 | 65 | 60 | 54 | 46 |
| 3, 5A | 12 | 60 | 65 | 60 | 54 | 46 |
| 3, 5A(S) | 10 | 65 | 70 | 70 | 60 | 50 |
| 10A | 7 | 53 | 60 | 55 | 45 | 40 |
| 15A | 8 | 30 | 40 | 45 | 40 | 40 |
| 20A | 7 | 55 | 50 | 50 | 55 | 40 |

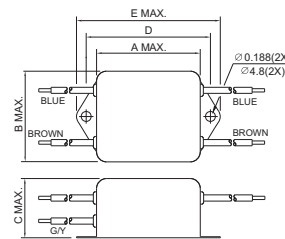
MECHANICAL CONSTRUCTION



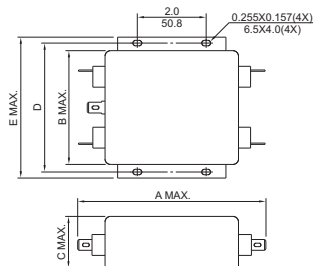
CW5



GG5



WIRE LENGTH : 4.0" MIN.

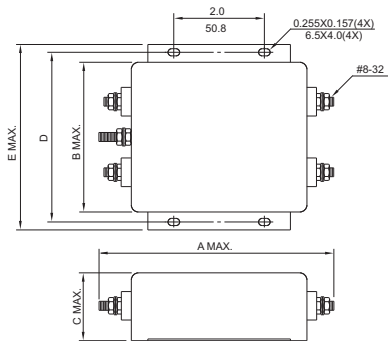


UNIT: $\frac{\text{INCH}}{\text{mm}}$

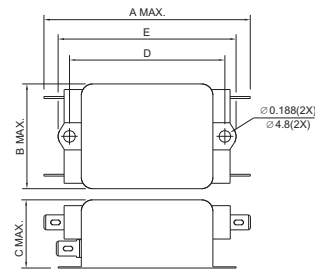
MECHANICAL CONSTRUCTION



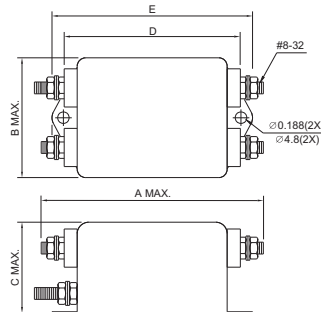
GS5



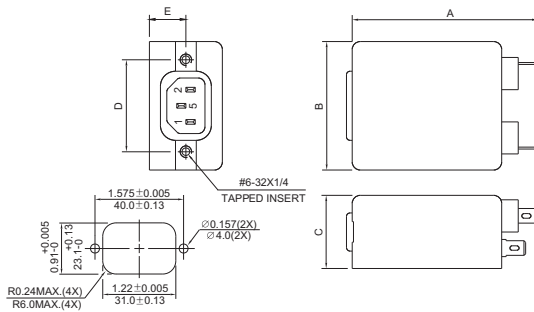
CG5



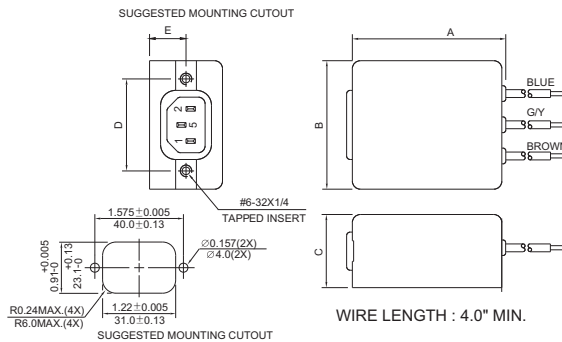
CS5



DG3S



DW3S



GENERAL PURPOSE TWO-STAGE FILTERS