



**VB**SERIES

## GENERAL PURPOSE FILTERS



### INTRODUCTIONS

1. Designed as general purpose filter providing effective EMI suppression.
2. All part numbers are UL recognized, CSA certified and VDE approved.

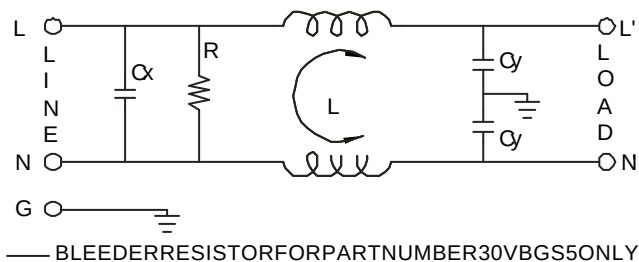
### COMPONENTS

| PART NO. | L (mH) | Cx (uF) | Cy (pF) | R (Ohm) |
|----------|--------|---------|---------|---------|
| 03VBAG5  | 1.3    | 0.033   | 2200    | -       |
| 03VBAW5  |        |         |         |         |
| 05VBAG5  | 0.6    |         |         |         |
| 05VBAW5  |        |         |         |         |
| 10VBAG5  |        |         |         |         |
| 10VBAW5  | 0.8    |         |         |         |
| 10VBAS5  |        | 0.1     | 4700    | 1M      |
| 20VBAG5  | 0.7    |         |         |         |
| 20VBAS5  |        |         |         |         |
| 30VBGS5  | 0.6    |         |         |         |

### INSERTION LOSS (TYPICAL)

| COMMON MODE (L-G) IN 50 OHM SYSTEM       |                 |     |     |     |    |    |
|------------------------------------------|-----------------|-----|-----|-----|----|----|
| CURRENT RATING                           | FREQUENCY - MHz |     |     |     |    |    |
|                                          | .15             | .50 | 1.0 | 5.0 | 10 | 30 |
| 3A                                       | 20              | 30  | 38  | 45  | 45 |    |
| 5A                                       | 10              | 20  | 28  | 45  | 45 | 50 |
| 10A                                      | 13              | 20  | 22  | 35  | 35 | 50 |
| 20A                                      | 13              | 20  | 25  | 40  | 45 | 48 |
| 30A                                      | 8               | 21  | 26  | 34  | 37 | 38 |
| DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM |                 |     |     |     |    |    |
| 3A                                       | 2               | 8   | 40  | 35  | 30 |    |
| 5A                                       | 2               | 8   | 30  | 35  | 30 |    |
| 10A                                      | 2               | 8   | 30  | 30  | 30 |    |
| 20A                                      | 2               | 8   | 35  | 35  | 40 |    |
| 30A                                      | 10              | 15  | 45  | 50  | 42 |    |

### ELECTRICAL SCHEMATIC



### SPECIFICATIONS

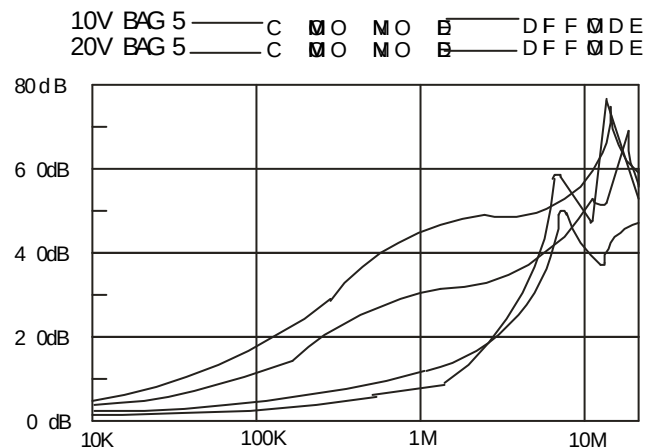
1. Maximum leakage current each line-to-ground @ 115VAC 60Hz: 0.20mA  
0.40mA (30VBGS5)  
@ 250VAC 60Hz: 0.40mA  
0.80mA (30VBGS5)
2. Hipot rating (one minute)  
line-to-ground: 2250VDC  
line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

### SERIES DIMENSIONS

| PARNO.    | DIMENSIONS IN INCHES/mm |               |              |               |               |
|-----------|-------------------------|---------------|--------------|---------------|---------------|
|           | A                       | B             | C            | D             | E             |
| 03VBAG5   | 2.15                    | 1.77<br>44.9  | 0.65<br>16.5 | 2.13<br>54.1  | 2.54<br>64.5  |
|           | 54.61                   |               |              |               |               |
| 03VBAW5   | 0.96                    |               | 0.79<br>20.0 |               |               |
|           | 24.38                   |               |              |               |               |
| 05VBAG5   | 2.54                    |               | 2.13<br>54.1 |               |               |
|           | 64.52                   |               |              |               |               |
| 05VBAW5   | 1.33                    |               | 20.0         |               |               |
|           | 33.78                   |               |              |               |               |
| * 10VBAG5 | 2.54                    | 1.16<br>29.5  |              |               |               |
|           | 64.52                   |               |              |               |               |
| * 10VBAW5 | 1.33                    |               | 2.38<br>60.5 |               |               |
|           | 33.78                   |               |              |               |               |
| * 10VBAS5 | 3.10                    | 2.77<br>70.3  |              |               |               |
|           | 78.74                   |               |              |               |               |
| • 20VBAG5 | 3.25                    | 2.02<br>51.3  | 1.15<br>29.2 |               |               |
|           | 82.55                   |               |              |               |               |
| • 20VBAS5 | 3.37                    | 3.40<br>86.36 | 1.52<br>38.6 | 3.75<br>95.25 | 4.14<br>105.2 |
|           | 85.6                    |               |              |               |               |
| 30VBGS5   | 5.25                    | 3.40<br>86.36 | 1.52<br>38.6 | 3.75<br>95.25 | 4.14<br>105.2 |
|           | 133.4                   |               |              |               |               |

- \* VDE approved to 8A/250VAC
- VDE approved to 16A/250VAC

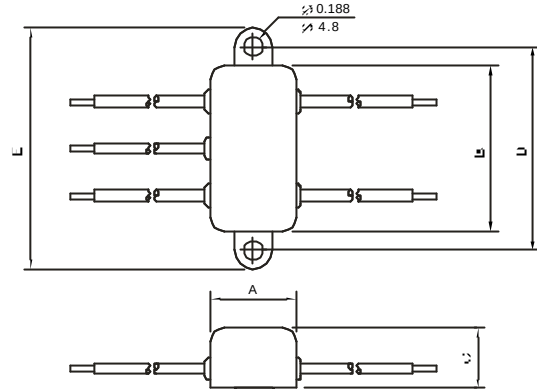
### MINIMUM INSERTION LOSS IN dB



## MECHANICAL CONSTRUCTION



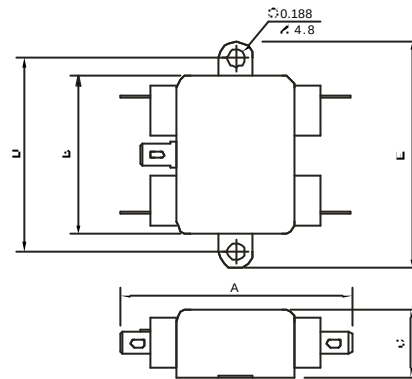
AW5



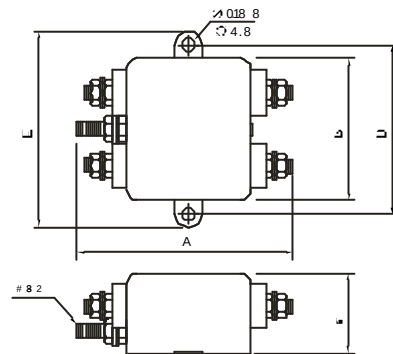
ALL WIRE LEADS 4.0" LONG MIN.



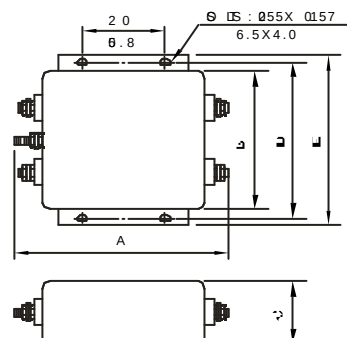
AG5



AS5



GS5



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

# Mouser Electronics

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