



# DB SERIES

# GENERAL PURPOSE FILTERS



## INTRODUCTIONS

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

## COMPONENTS

PARTNO.	Cx(μF)	L(mH)	Cy(pF)	R(Ω)
* 02DBAG5	0.1	1.1	3300	-
* 02DBAW5				
* 03DBAG5				
* 03DBAW5				
* 05DBAG5				
* 05DBAW5	0.47	2.9	3300	-
06BDW3S				
* 10DBAG5	0.1	3.7	3300	330K
* 10DBAW5		1.5		-
* 10DBAS5		1.45		330K
10DBG3S	0.47	1.45	3300	-
20DBAG5	0.33	0.7	3300	-
20DBAS5				
12DBG5B	0.1	0.7	4700	1.0M
16BCG5B				
16BCW5B				
20BCG5B				
20BCS5B				
30BCS5B	0.47	0.67	10000	

• UL & CSA approved only.  
\* OPTION 300V

## 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
2,3,5A	15	30	38	45	45	40
6A	20	25	35	40	45	35
10A	20	30	35	50	50	45
* 10A	15	22	30	40	40	45
20A	13	20	25	40	45	45
12A (BG5B)	10	20	22	35	40	40
16A (CG5B) (CW5B)	10	18	20	35	50	30
20A (CG5B) (CS5B)	10	20	22	30	35	35
30A (CS5B)	10	28	30	45	50	35
DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM						
CURRENT RATING	FREQUENCY-MHz					
	.15	.50	1.0	5.0	10	30
2,3,5A	6	15	20	40	45	45
6A	10	18	20	30	35	40
10A	6	15	20	44	45	45
* 10A	12	18	20	35	35	40
20A	15	24	28	45	45	45
12A (BG5B)	5	12	15	35	45	35
16A (CG5B) (CW5B)	5	10	15	45	45	40
20A (CG5B) (CS5B)	4	10	15	45	45	40
30A (CS5B)	12	20	25	45	50	45

\* 10DBG3S, DW3S

## SPECIFICATIONS

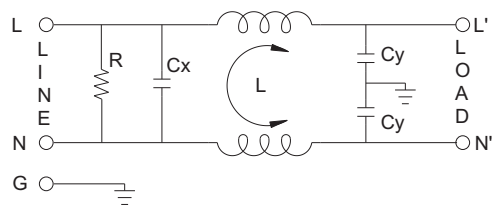
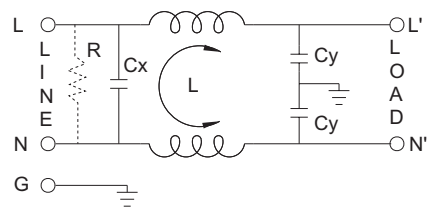
1. Maximum leakage current each  
line-to-ground @ 115VAC 60Hz: 0.25mA  
1.0mA (10000pF)  
@ 250VAC 50Hz: 0.45mA  
2.0mA (10000pF)
2. Hipot rating (one minute)  
line-to-ground: 2250VDC  
line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

## SERIES DIMENSIONS

CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm				
		A	B	C	D	E
2A	AG5	2.15	45.0	0.65	2.13	2.54
		54.6				
	AW5	0.96		24.4		
3A	AG5	2.54	45.0	0.77	54.1	2.50
		64.5				
	AW5	1.33		33.8		
5A	AG5	2.54	45.0	0.77	54.1	2.50
		64.5				
	AW5	1.33		33.8		
6A	DW3S	2.55	2.08	1.29	1.575	0.61
		64.77	52.83	32.77	40.01	15.49
10A	AG5	2.54	45.0	1.18	54.1	2.50
		64.5				
	AW5	1.33		33.8		
	AS5	3.10	2.02	1.18	2.38	2.77
		78.7	51.3	30.0	60.5	70.3
DG3S	3.14	2.10	1.28	1.575	0.61	
	79.80	53.30	32.50	40.00	15.50	
20A	AG5	3.25	2.02	1.16	2.38	2.75
		82.5	51.3	29.5	60.5	69.9
	AS5	3.37	2.02	1.15	2.38	2.77
		85.6	51.3	29.2	60.5	70.3

CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm					
		A	B	C	D	E	F
12A	BG5B	2.13	2.54	1.34	1.77	30.0	-
		54.00	64.5	34.0	45.0		
16A	CG5B	2.40	2.81	1.79	2.02	30.0	-
		61.00	71.5	45.5	51.3		
20A	CW5B	2.40	2.81	1.79	2.02	30.0	-
		61.00	71.5	45.5	51.3		
20A	CG5B	2.95	3.34	2.04	2.52	30.0	-
		75.00	84.8	51.8	64.0		
30A	CS5B	4.06	4.49	2.22	3.74	30.0	-
		103.0	114.0	56.5	95.0		

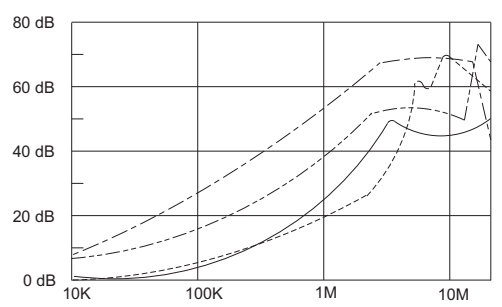
**ELECTRICAL SCHEMATIC**



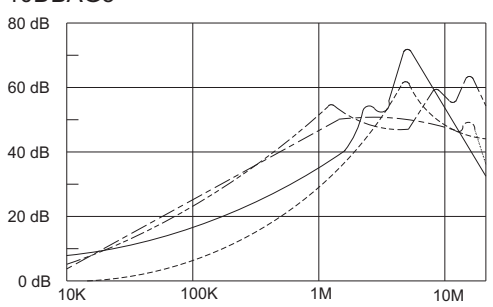
XXDBXX5B

**INSERTION LOSS (TYPICAL)**

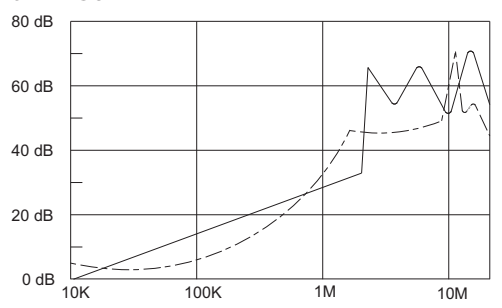
02DBAG5----- COMMON MODE ----- DIFF. MODE  
03DBAG5----- COMMON MODE ----- DIFF. MODE



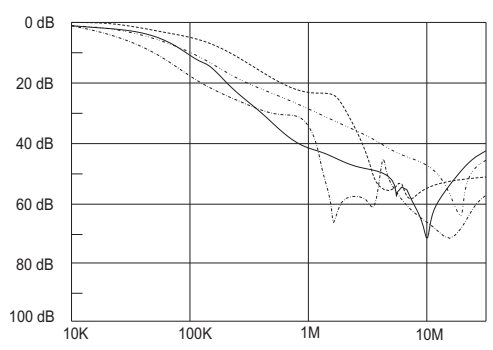
05DBAG5----- COMMON MODE ----- DIFF. MODE  
10DBAG5----- COMMON MODE ----- DIFF. MODE



20DBAG5----- COMMON MODE ----- DIFF. MODE

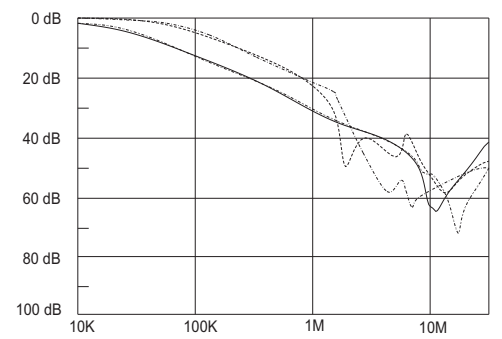


20DBC5B ----- COMMON MODE ----- DIFF. MODE  
20BCS5B ----- COMMON MODE ----- DIFF. MODE  
30BCS5B ----- COMMON MODE ----- DIFF. MODE

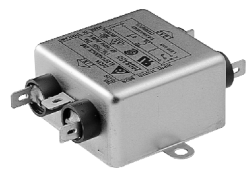


12DBBG5B ----- COMMON MODE ----- DIFF. MODE

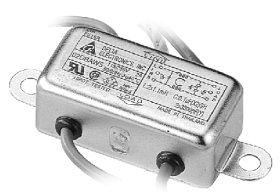
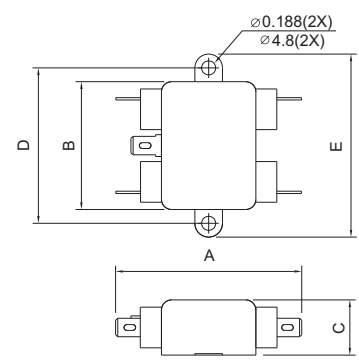
16DBC5B ----- COMMON MODE ----- DIFF. MODE  
16BCW5B ----- COMMON MODE ----- DIFF. MODE



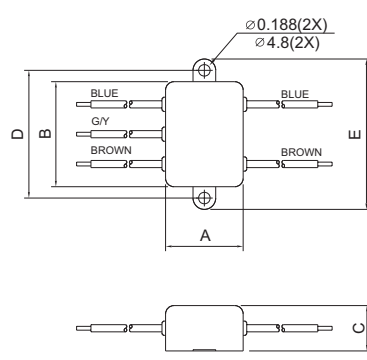
**MECHANICAL CONSTRUCTION**



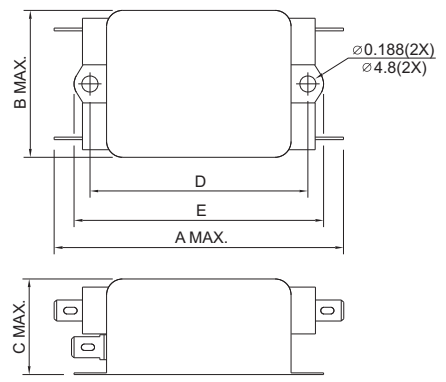
AG5



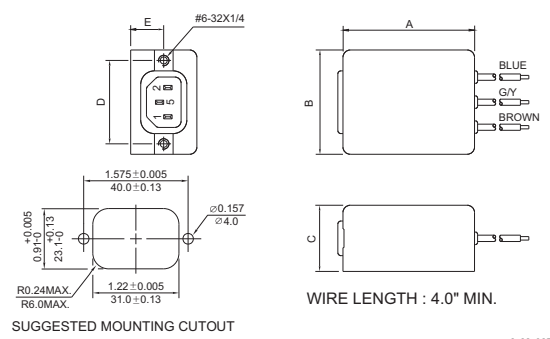
AW5



CG5



DW3S

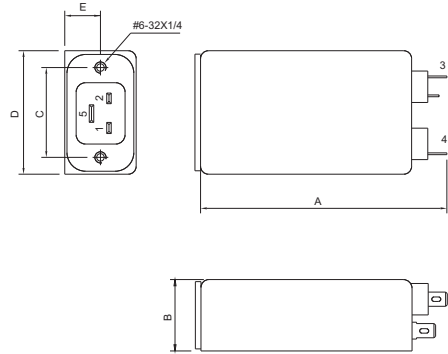


UNIT: INCH  
mm

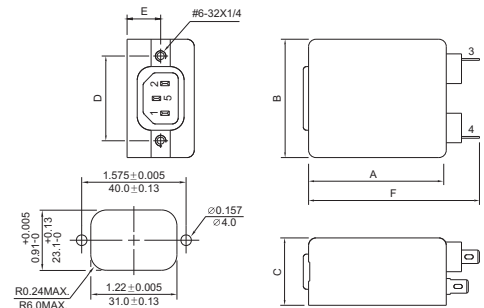
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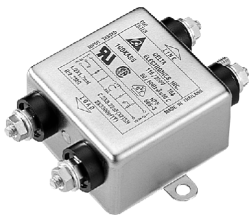
DG3



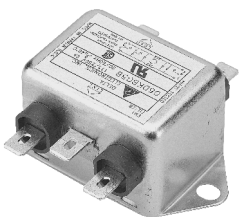
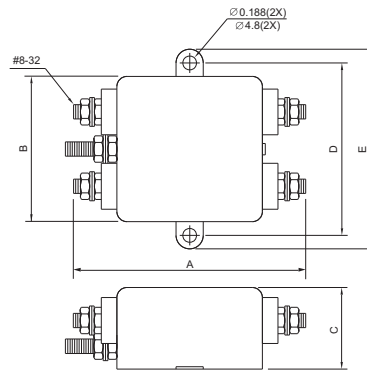
DG3S



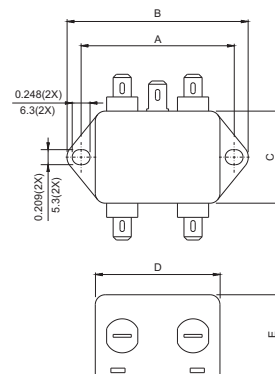
SUGGESTED MOUNTING CUTOUT



AS5



BG5B  
(option wire style)



**MECHANICAL CONSTRUCTION**



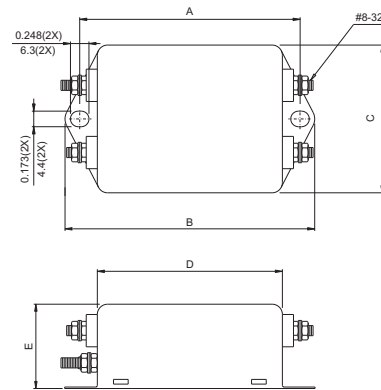
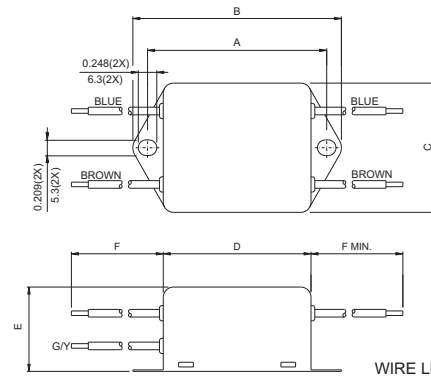
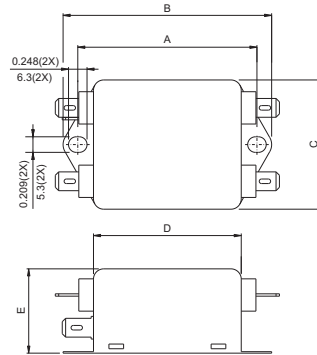
CG5B



CW5B



CS5B



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

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