

**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

PART NO.	Cx (uF)	L (mH)	Cy (pF)	R (Ohm)
02DBAG5	0.1	1.1	3300	-
02DBAW5				
03DBAG5		2.8		
03DBAW5				
05DBAG5		2.9		
05DBAW5	0.47	4.0	4700	2.2M
05DBAS5A				
• 05DBDG3	0.22	2.1	3300	-
• 05DBDW3				
06DBDW3S	0.47	3.7		330K
10DBAG5	0.1	1.5		-
10DBAW5				
10DBAS5				
10DBDW3S	0.47	1.45		330K
* 10DBDG3S				
16DBDG3	1.0	3.6	10000	200K
* 16DBC5G5	2.2			
20DBAG5	0.33	0.7	3300	-
20DBAS5				
12DBBG5B	0.1	0.7	4700	1.0M
12DBBW5B				
16DBC5G5B		0.65		
16DBCW5B				
20DBC5G5B		0.60		
20BCS5B	0.47	0.67	10000	
30BCS5B				

• UL & CSA approved only.

* No safety approval yet

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
10A	20	30	35	50	50	45
* 10A	15	22	30	40	40	45
16A(DG3)	20	30	35	45	50	35
16A(CG5)	20	30	35	50	50	40
20A	13	20	25	40	45	45
12A(BG5B)(BW5B)	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						
2,3,5A	6	15	20	40	45	45
6A	12	18	20	30	35	40
10A	6	15	20	44	45	45
* 10A	12	18	20	30	35	40
16A(DG3)	10	30	50	50	50	50
16A(CG5)	20	30	40	45	40	30
20A	15	24	28	45	45	45
12A(BG5B)(BW5B)	10	20	22	35	40	40
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

* 10BDG3S, DW3S

SPECIFICATIONS

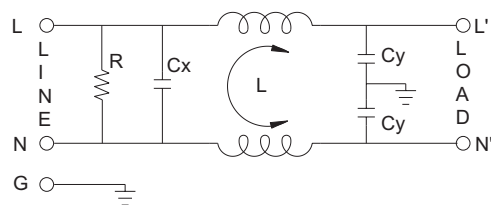
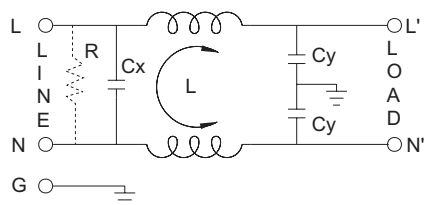
1. Maximum leakage current each
line-to-ground @ 115VAC 60Hz: 0.25mA
1.0mA (10000pF)
@ 250VAC 50Hz: 0.45mA
2.0mA (10000pF)
2. Hipot rating (one minute)
line-to-ground: 2250VDC
line-to-line: 1450VDC
3. Operating frequency: 50/60Hz
4. Rated voltage: 115/250VAC

SERIES DIMENSIONS

CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm				
		A	B	C	D	E
2A	AG5	2.15	1.77	0.65	2.13	2.54
		54.6				
	AW5	0.96		16.5		64.5
3A	AG5	2.54	45.0	19.5	54.1	63.5
		64.5				
	AW5	1.33				
5A	AG5	33.8	45.0	19.5	54.1	2.50
		2.54				
	AW5	64.5				63.5
6A	DW3S	1.33	2.02	1.15	2.38	2.77
		33.8				
	AS5A	85.6				70.3
10A	AG5	2.55	2.08	1.29	1.575	0.61
		64.77				
	DW3S	2.54				15.49
16A	AG5	64.5	45.0	1.18	2.13	2.50
		1.77				
	AW5	33.8				63.5
20A	AS5	3.10	2.02	1.18	2.38	2.77
		78.7				
	DW3S	51.3				70.3
30A	CG5	2.55	2.08	1.29	1.575	0.61
		64.77				
	DG3S	3.14				15.49
40A	DG3	79.76	53.32	32.51	40.01	15.49
		4.35				
	CG5	110.49				16.0
50A	CG5	3.75	2.06	1.54	2.94	3.34
		95.25				
	AS5	52.32				84.84
60A	AG5	3.25	2.02	1.16	2.38	2.75
		82.5				
	AS5	51.3				69.9
70A	AG5	3.37	2.02	1.15	2.38	2.77
		85.6				
	AS5	51.3				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	45.0	-
	BW5B	54.00	64.5	34.0	45.0		3.94
16A	CG5B	2.40	2.81	1.79	2.02	51.3	-
	CW5B	61.00	71.5	45.5	51.3		3.94
20A	CG5B	2.95	3.34	2.04	2.52	64.0	-
	CS5B	75.00	84.8	51.8	64.0		-
30A	CS5B	4.06	4.49	2.22	3.74	1.83	46.4
		103.3	114.0	56.5	95.0		

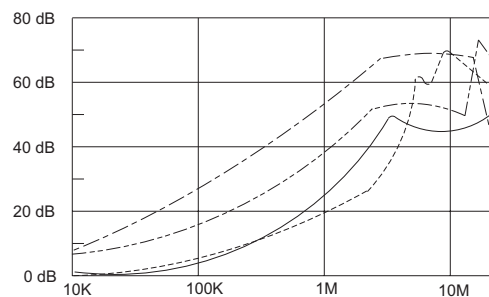
ELECTRICAL SCHEMATIC



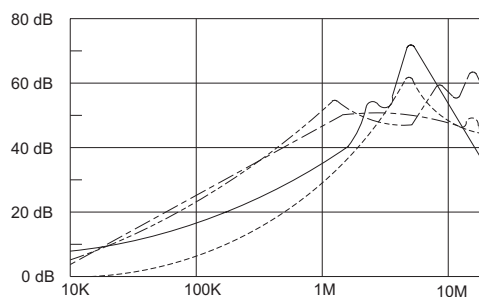
XXDBXX5B

INSERTION LOSS (TYPICAL)

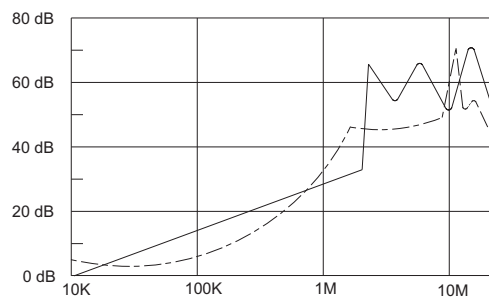
02DBAG5-----COMMON MODE-----DIFF. MODE
03DBAG5-----COMMON MODE-----DIFF. MODE



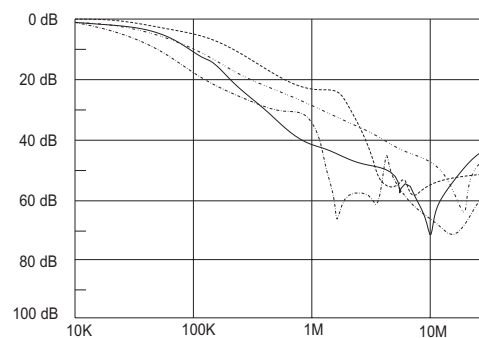
05DBAG5-----COMMON MODE-----DIFF. MODE
10DBAG5-----COMMON MODE-----DIFF. MODE



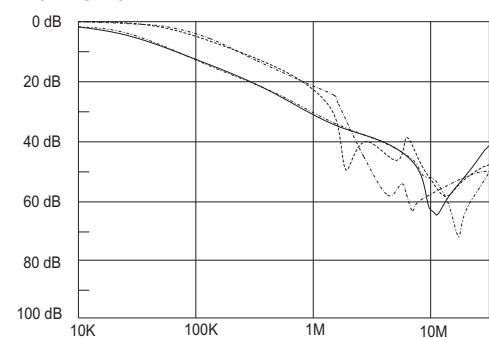
20DBAG5-----COMMON MODE-----DIFF. MODE



20DBC55B-----COMMON MODE-----DIFF. MODE
20BCS55B-----COMMON MODE-----DIFF. MODE
30BCS55B-----COMMON MODE-----DIFF. MODE



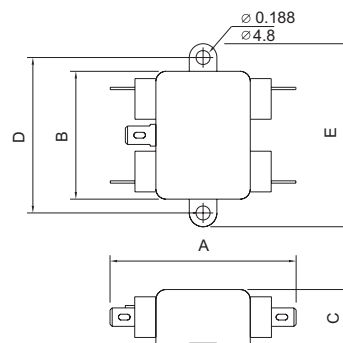
12DBBG5B-----COMMON MODE-----DIFF. MODE
12DBBW5B-----COMMON MODE-----DIFF. MODE
16DBC55B-----COMMON MODE-----DIFF. MODE
16BCW55B-----COMMON MODE-----DIFF. MODE



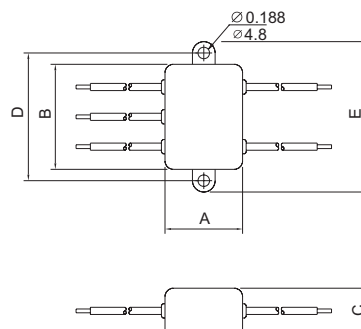
MECHANICAL CONSTRUCTION



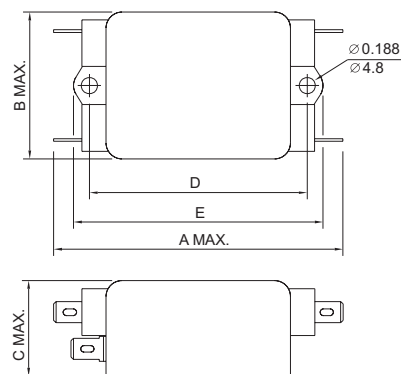
AG5



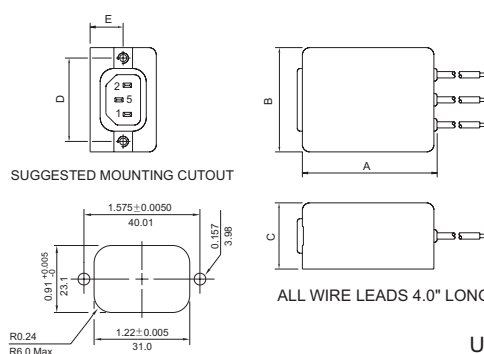
AW5



CG5



DW3S

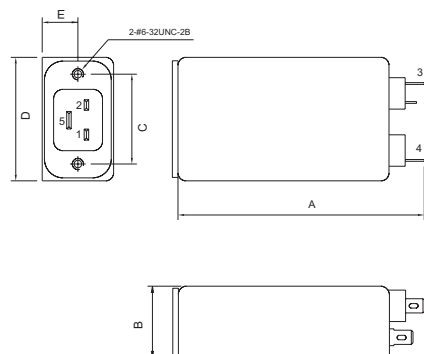


UNIT: $\frac{\text{INCH}}{\text{mm}}$

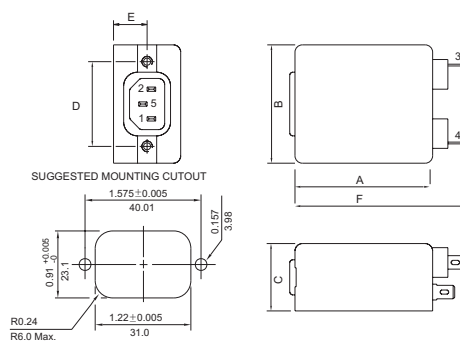
MECHANICAL CONSTRUCTION



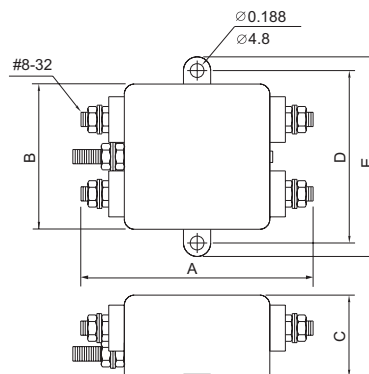
DG3



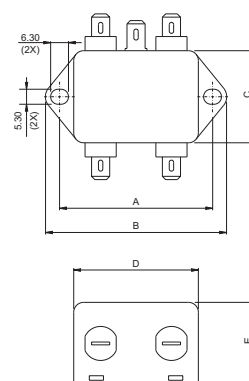
DG3S



AS5



BG5B, BW5B
(option wire style)



MECHANICAL CONSTRUCTION



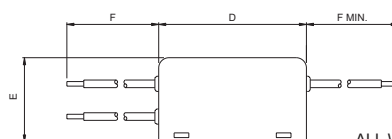
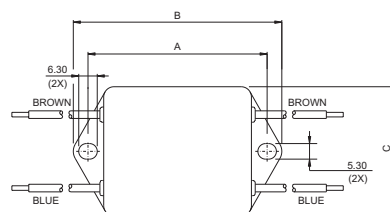
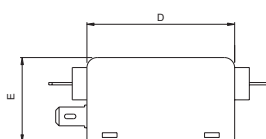
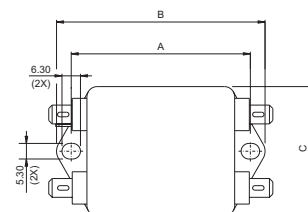
CG5B



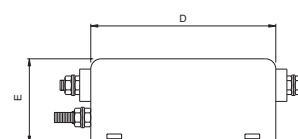
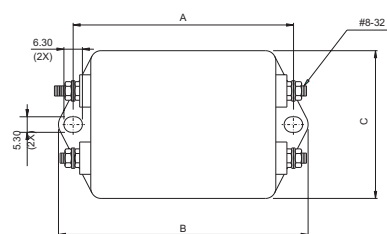
CW5B



CS5B



ALL WIRE LEADS 4.0" LONG MIN.



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