DK SERIES GENERAL PURPOSE FILTERS

INTRODUCTIONS

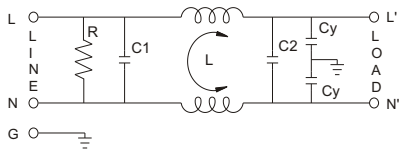
1. Effectively control EMI suppression of both line-to-line and line-to-ground noise.
2. All part numbers are UL recognized, CSA certified and VDE approved.

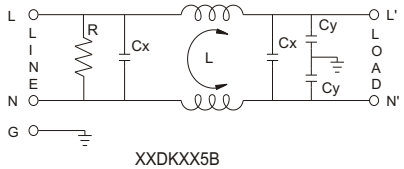
COMPONENTS

PART NO.	C1 (uF)	C2 (uF)	L (mH)	Cy (pF)	R (Ω)
02DKAG5	0.22	0.22	2.1	3300	2.2M
02DKAW5					
03DKAG5			3.2		
03DKAW5					
03DKDG3S			4.5		
03DKDW3S					
05DKAG5			2.7		
05DKAS5					
05DKAW5					
05DKDG3S			2.5		
05DKDW3S					
10DKAG5			1.7		
10DKAS5					
10DKAW5					
10DKDG3S					
10DKDW3S					
20DKBG5	0.22	0.22	1.4	3300	2.2M
20DKBS5					
30DKCS5	0.22	0.47	0.59	10000	470K

PART NO.	Cx (uF)	L (mH)	Cy (pF)	R (Ω)
03DKBG5B	0.15	2.5	4700	1.0M
06DKBG5B		1.0		
12DKBG5B		0.7		470K
16DKCG5B		0.65		1.0M
16DKCW5B				
20DKCG5B		0.60		
20DKCS5B				
30DKCS5B	0.47	0.67	10000	470K

ELECTRICAL SCHEMATIC





XXDKXX5B

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

MINIMUM INSERTION LOSS IN dB

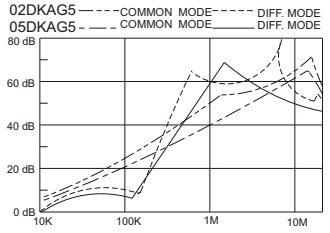
COMMON MODE (L-G) IN 50 OHM SYSTEM							
CURRENT RATING	STYLE	FREQUENCY-MHz					
		.15	.50	1.0	5.0	10	30
2,3,5A	AG5, AWG	22	30	38	47	50	40
	AS5	22	30	38	47	50	40
3A(S) 5A(S)	DG3S	22	30	38	50	55	45
	DW3S	22	30	38	50	55	45
10A 10A(S)	AG5, AS5	15	20	28	45	45	45
	AW5	15	20	28	45	45	45
	DG3S, DW3S	15	20	28	45	45	45
20A	BG5, BS5	14	19	28	40	42	35
30A	CS5	10	20	30	40	45	30
DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM							
2,3,5A	AG5, AWG	22	30	38	47	50	40
	AS5	22	30	38	47	50	40
3A(S) 5A(S)	DG3S	22	30	38	50	55	45
	DW3S	22	30	38	50	55	45
10A 10A(S)	AG5, AS5	15	20	28	45	45	45
	AW5	15	20	28	45	45	45
	DG3S, DW3S	15	20	28	45	45	45
20A	BG5, BS5	14	19	28	40	42	35
30A	CS5	10	20	30	40	45	30

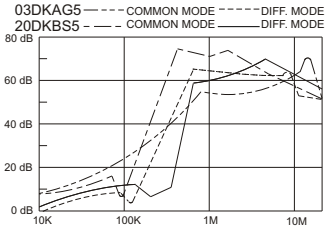
COMMON MODE (L-G) IN 50 OHM SYSTEM							
CURRENT RATING	STYLE	FREQUENCY-MHz					
		.15	.50	1.0	5.0	10	30
3A	BG5B	20	30	35	45	50	45
6A	BG5B, BW5B	15	20	25	40	45	45
12A	BG5B	10	20	22	35	45	40
16A	CG5B, CW5B	10	18	20	35	45	30
20A	CG5B, CS5B	10	18	20	30	35	35
30A	CS5B	10	25	30	45	50	35
DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM							
3A	BG5B	7	35	50	45	45	45
6A	BG5B, BW5B	10	20	45	45	50	45
12A	BG5B	10	20	40	45	45	45
16A	CG5B, CW5B	10	18	40	40	40	35
20A	CG5B, CS5B	10	12	35	35	40	40
30A	CS5B	12	40	50	50	50	45

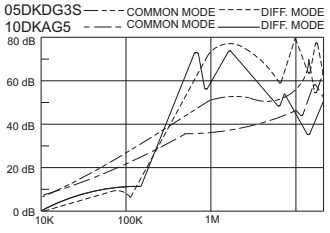
SERIES DIMENSIONS

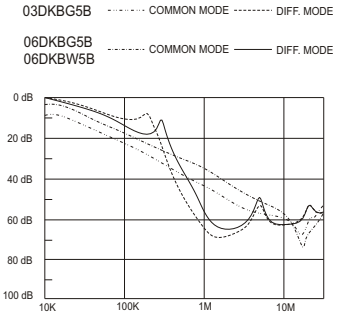
CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm				
		A	B	C	D	E
2A	AG5	2.99 75.9	2.04 51.8	0.90 22.9	2.38 60.5	2.79 70.9
	AW5	1.83 46.5				
3A	AG5	2.99 75.9		1.16 29.5		
	AW5	1.83 46.5				
	DG3S	3.14 79.8		1.29 32.8	1.575 40.0	0.61 15.5
	DW3S	2.55 64.8				
5A	AG5	2.99 75.9		1.16 29.5	2.38 60.5	2.79 70.9
	AW5	1.83 46.5				
	AS5	3.37 85.6				
	DG3S	3.14 79.8		1.29 32.8	1.575 40.0	0.61 15.5
	DW3S	2.55 64.8				
10A	AG5	3.25 82.5		1.16 29.5	2.38 60.5	2.79 70.9
	AW5	2.08 52.8				
	AS5	3.37 85.6				
	DG3S	3.22 81.5	2.30 58.4	1.29 32.8	1.575 40.0	0.61 15.5
	DW3S	2.63 66.8				
20A	BG5	3.25 82.5	2.52 64.0	1.54 39.1	2.94 74.7	3.36 85.3
	BS5	3.37 85.6				3.37 85.6
30A	CS5	3.87 98.3	2.04 51.8			3.36 85.3

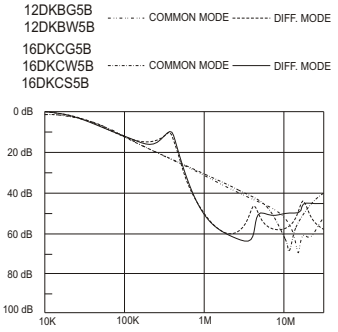
INSERTION LOSS (TYPICAL)











SERIES DIMENSIONS

CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm					
		A	B	C	D	E	F
3A	BG5B	2.13 / 54.0	2.54 / 64.5	1.34 / 34.0	1.77 / 45.0	1.18 / 30.0	-
6A	BG5B						-
12A	BG5B						-
16A	CG5B	2.40 / 61.0	2.81 / 71.5	1.79 / 45.5	2.02 / 51.3		3.94 / 100.0
	CW5B						-
20A	CG5B	2.95 / 75.0	3.34 / 84.8	2.04 / 51.8	2.52 / 64.0		3.94 / 100.0
	CS5B						-
30A	CS5B	4.06 / 103.0	4.49 / 114.0	2.22 / 56.5	3.74 / 95.0	1.83 / 46.4	-

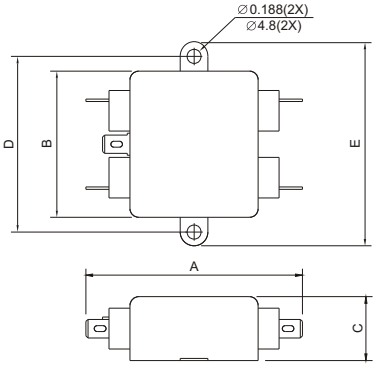
MECHANICAL CONSTRUCTION

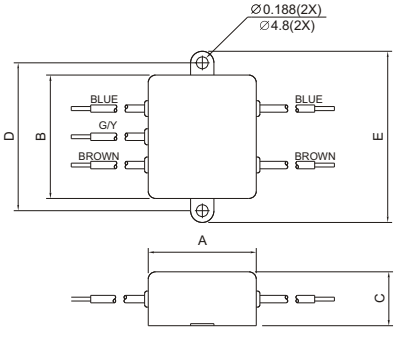


AG5



AW5





WIRE LENGTH : 4.0" MIN.

UNIT: INCH / mm

MECHANICAL CONSTRUCTION



AS5



BG5



BS5



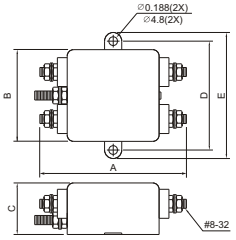
CG5

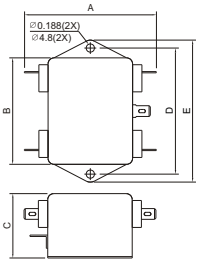


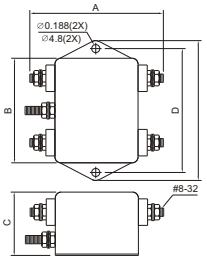
CS5

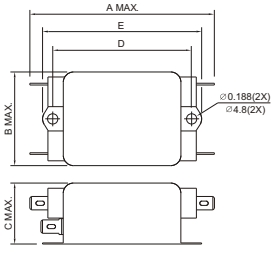


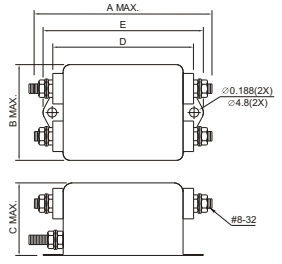
DG3S

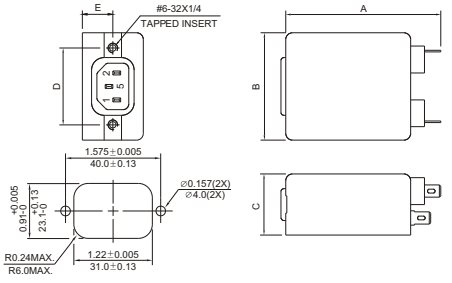












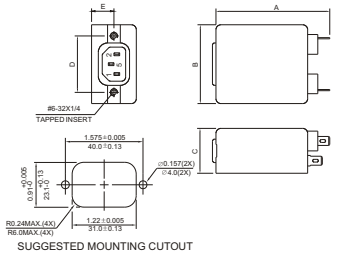
SUGGESTED MOUNTING CUTOUT

UNIT: INCH / mm

MECHANICAL CONSTRUCTION



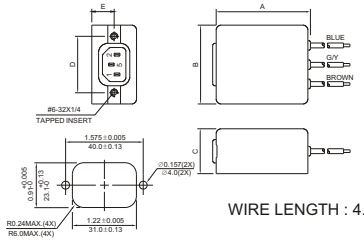
DG3



SUGGESTED MOUNTING CUTOUT

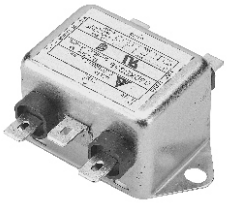


DW3S

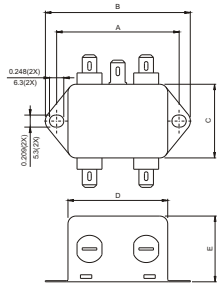


WIRE LENGTH : 4.0" MIN.

SUGGESTED MOUNTING CUTOUT

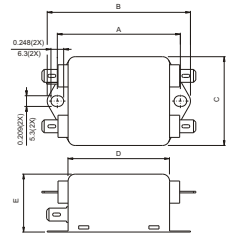


BG5B
(option wire style)



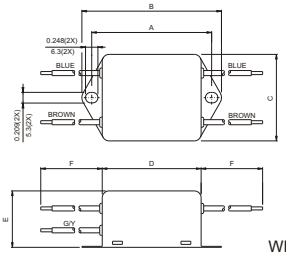


CG5B





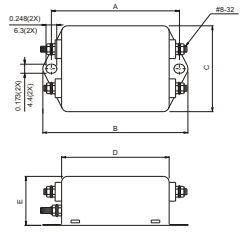
CW5B



WIRE LENGTH : 4.0" MIN.



CS5B



UNIT: INCH / mm