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DP SERIES SWITCHING TRANSIENT FILTERS

INTRODUCTION

Two-stage filters provide high insertion loss for both line-to-line and line-to-ground emissions throughout the frequency range.

COMPONENTS

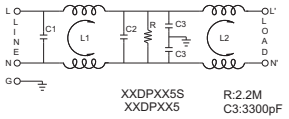
PART NO.	C1 (uF)	C2 (uF)	L1 (mH)	L2 (mH)
03DPCG5S	0.33	0.33	10	10
03DPCW5S				
03DPDG3S			6.5	4.5
03DPDW3S				
06DPCG5	0.47	0.47	2.7	14
06DPCW5			2.7	14
*06DPDW3	0.66		8.0	2.83
10DPCG5	0.47		5	5

*R:470 KΩ

PART NO.	C1 (uF)	C2 (pF)	L1(mH)	L2(mH)	R(K Ω)
03DPCG5B/W5B	0.47	4700	9.8	9.8	470
06DPCG5B/W5B	1.0		7.8	7.8	220
12DPCG5B/W5B			3.25	3.25	
16DPGG5B/W5B/S5B			2.8	2.8	

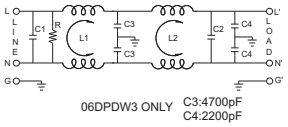
PART NO.	Cx (uF)	L1 (mH)	L2 (mH)	Cy (pF)	R (Ω)
03DPCG5C	0.22	2.5	2.5	4700	1.0M
03DPCW5C					
06DPCG5C		0.97	0.97		
06DPCW5C					
12DPCG5C	0.47	0.58	0.58		470K
12DPCW5C					
16DPCG5C	0.33	0.65	0.65		1.0M
16DPCW5C					
16DPCS5C					
20DPCG5C	1.0	0.60	0.60		220K
20DPCS5C					
30DPGS5C				10000	

ELECTRICAL SCHEMATIC



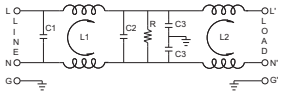
XXDPXX5S
XXDPXX5

R:2.2M
C3:3300pF



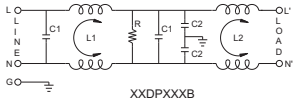
06DPDW3 ONLY

C3:4700pF
C4:2200pF

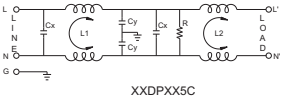


XXDPDX3S

R:2.2M
C3:3300pF



XXDPXXXB



XXDPXX5C

SPECIFICATIONS

1.Maximum leakage current each
line-to-ground @ 115VAC 60Hz: 0.4mA (4700pF)
@ 250VAC 50Hz: 0.8mA (4700pF)
@ 115VAC 60Hz: 1.0mA (10000pF)
@ 250VAC 50Hz: 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	FREQUENCY-MHz					
	.15	.50	1.0	5.0	10	30
3A(S)	50	70	70	60	50	40
3A	60	70	70	65	55	40
6A	58	70	65	65	60	50
10A	48	65	60	45	35	20
•06DPDW3	55	60	60	60	60	60
03DPCG5B/W5B	60	70	65	50	45	25
06DPCG5B/W5B	50	60	60	60	60	35
12DPCG5B/W5B	45	60	65	65	65	45
16DPGG5B/W5B/S5B	20	35	40	50	40	30
DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM						
3A(S)	35	48	55	55	55	45
3A	36	55	60	55	55	45
6A	40	65	65	70	70	50
10A	30	40	45	55	60	25
03DPCG5B/W5B	30	45	45	45	45	25
•06DPDW3	40	60	60	60	60	60
06DPCG5B/W5B	45	50	50	55	55	45
12DPCG5B/W5B	45	45	50	50	50	50
16DPGG5B/W5B/S5B	7	55	50	50	50	40

•Maximum leakage current
a. 115VAC 60Hz: 0.5mA
b. 250VAC 50Hz: 1.0mA

COMMON MODE (L-G) IN 50 OHM SYSTEM							
CURRENT RATING	STYLE	FREQUENCY-MHz					
		.15	.50	1.0	5.0	10	30
3A	CG5C, CW5C	45	60	60	55	45	35
6A	CG5C, CW5C	30	50	60	55	50	35
12A	CG5C, CW5C	15	25	35	55	55	35
16A	CG5C, CW5C, CS5C	20	35	45	60	50	35
20A	CG5C, CS5C	15	40	45	50	50	40
30A	GS5C	10	30	35	55	45	30
DIFFERENTIAL MODE (L-L) IN 50 OHM SYSTEM							
3A	CG5C, CW5C	12	45	45	45	45	45
6A	CG5C, CW5C	8	45	45	45	45	45
12A	CG5C, CW5C	12	40	40	35	35	40
16A	CG5C, CW5C, CS5C	12	40	40	45	45	50
20A	CG5C, CS5C	12	45	45	40	35	50
30A	GS5C	18	45	50	40	40	40

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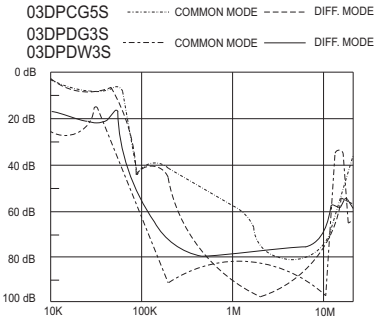
SERIES DIMENSIONS

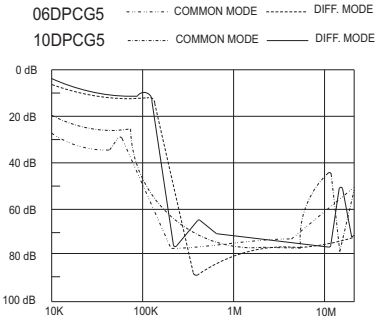
CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm A	B	C	D	E
3A	CG5S	2.94 / 74.7	3.36 / 85.3	2.04 / 51.8	2.52 / 64.0	1.77 / 45.0
3A	CW5S					
3A	DG3S	2.55 / 64.8	2.04 / 51.8	1.77 / 45.0	1.575 / 40.0	0.63 / 16.0
3A	DW3S					
6A	CG5	5.63 / 143.0	6.02 / 152.9	2.02 / 51.3	5.27 / 133.86	2.77 / 57.66
6A	CW5					
10A	CG5					2.77 / 70.4
6A	DW3	3.10 / 78.7	2.08 / 52.8	1.79 / 45.5	1.575 / 40.0	0.63 / 16.0

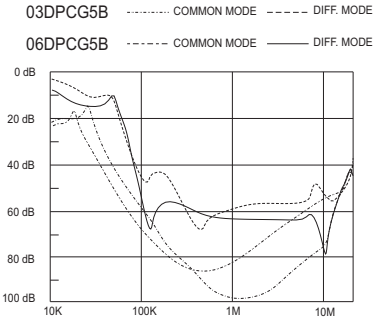
CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm A	B	C	D	E	F	G
3A	CG5B,CW5B	2.95 / 75.0	3.34 / 84.8	2.05 / 52.0	2.58 / 65.6	1.54 / 39.2	-	-
6A	CG5B,CW5B	4.06 / 103.0	4.49 / 114.0	2.22 / 56.5	3.76 / 95.5	1.83 / 46.4	-	-
12A	CG5B,CW5B	5.63 / 143.0	6.02 / 152.9	2.05 / 52.0	5.30 / 134.7	1.78 / 45.3	-	-
16A	GG5B,GW5B GS5B	3.89 / 99.0	4.31 / 109.5	4.72 / 120.0	2.0 / 51.0	2.62 / 66.5	3.38 / 86.0	2.24 / 57.0

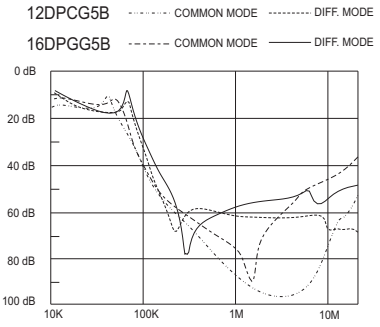
CURRENT RATING	STYLE	DIMENSIONS IN INCHES/mm A	B	C	D	E	F	G
3A	CG5C,CW5C	2.40 / 61.0	2.80 / 71.5	1.90 / 48.2	1.98 / 50.3	1.15 / 29.2	-	-
6A	CG5C,CW5C							
12A	CG5C,CW5C	2.95 / 75.0	3.34 / 84.8	2.05 / 52.0	2.58 / 65.6	1.15 / 29.2	-	-
16A	CG5C,CW5C CS5C					1.14 / 39.2		
20A	CG5C,CS5C	4.05 / 103.0	4.49 / 114.0	2.22 / 56.5	3.76 / 95.5	1.83 / 46.4	-	-
30A	GS5C	39.0 / 99.0	4.31 / 109.5	4.72 / 120.0	2.01 / 51.0	2.62 / 66.5	3.39 / 86.0	2.28 / 58.0

INSERTION LOSS (TYPICAL)



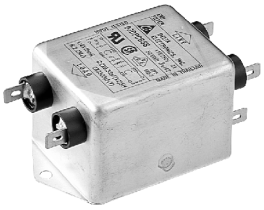




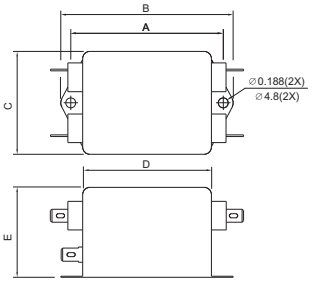


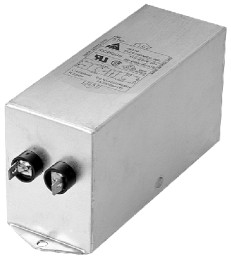
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MECHANICAL CONSTRUCTION

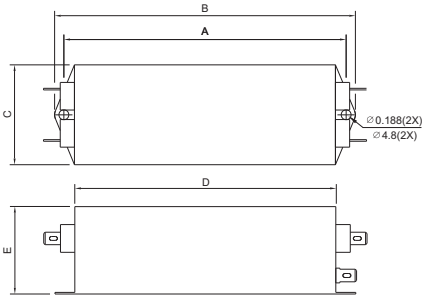


CG5S



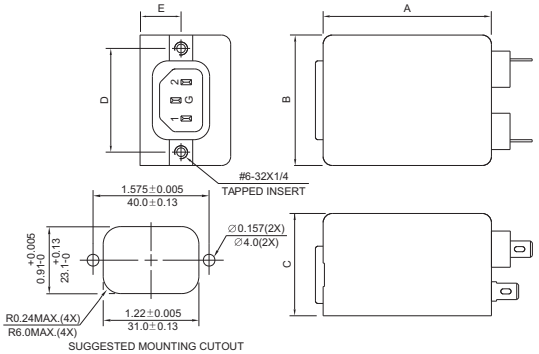


CG5



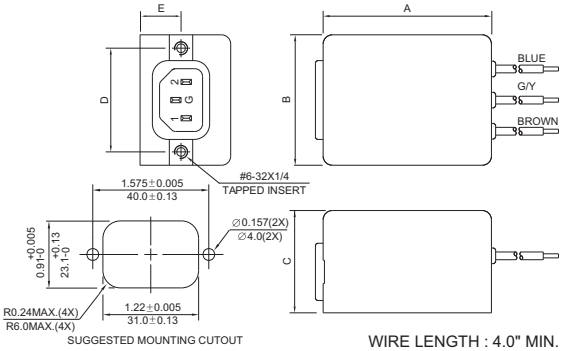


DG3S

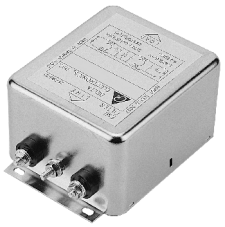




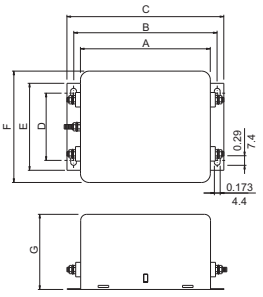
DW3/DW3S



WIRE LENGTH : 4.0" MIN.



GS5B/GS5C



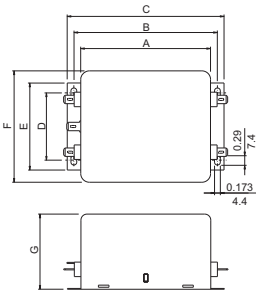
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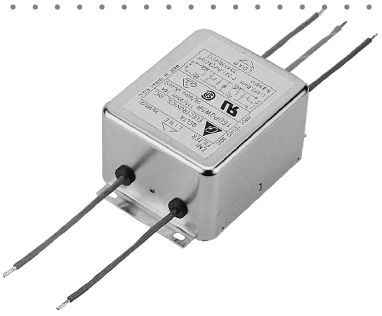
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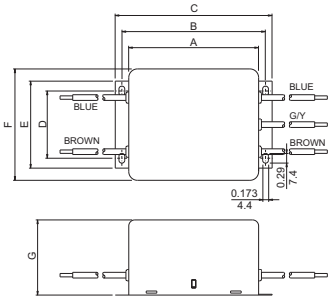


GG5B





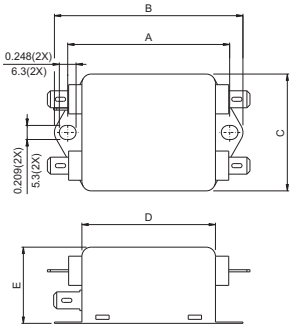
GW5B



WIRE LENGTH : 4.0" MIN.

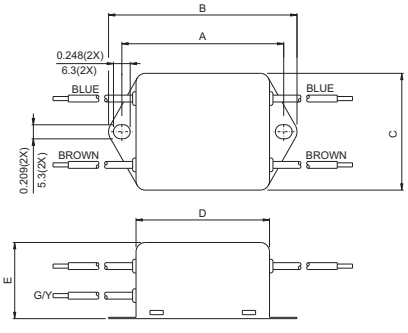


CG5B/CG5C





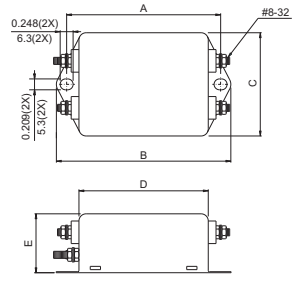
CW5/CW5B/CW5S/CW5C



WIRE LENGTH : 4.0" MIN.



CS5C



UNIT: INCH / mm

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