

THE ALLPOWER SOURCE

# 1Q AND 3Q EMI FILTERS

FULL RANGE OF EMI FILTERS



GENERAL PURPOSE HIGH INSERTION LOSS EMI FILTERS  
FOR COMMERCIAL AND MILITARY ELECTRONICS

ALLPOWER DIVISION  
TECHNOLOGY DYNAMICS INC.  
100 School Street, Bergenfield, NJ 07621  
Phone: (201) 385-0500, Fax: (201) 385-0702  
[www.theallpower.com](http://www.theallpower.com)



ISO 9002  
FILE: A5269

# SPECIFIED LIMITS BY REGULATORY AGENCY

## 1. FCC Pub. 15 B

Limits for conducted emissions (UNIT:dBuV, 1uV=0dB)

MHz	CLASS A		CLASS B	
	QUASI PEAK	AVERAGE	QUASI PEAK	AVERAGE
0.01~0.15	91-69.5		79-57.5	
0.15~0.5	66		54	
0.5~30	60		48	

Limits for radiated emission (UNIT:dB/M,1uV/M=odB/M)

MHz	CLASS A			CLASS B		
	3M	10M	30M	3M	10M	30M
33~88		39		40	(30)	
88~216		43.5		43.5	(33.5)	
216~960		46.5		46	(36)	
960~1000		49.5		54	(44)	

## 2. VDE 0871

Limits for conducted emissions (UNIT:dBuV, 1uV=0dB)

MHz	CLASS A		CLASS B	
	QUASI PEAK	AVERAGE	QUASI PEAK	AVERAGE
0.45~1.705	60			
1.705~30	69.5			
0.45~30			48	

Limits for radiated emission (UNIT:dB/M,1uV/M=odB/M)

MHz	CLASS A			CLASS B		
	3M	10M	30M	3M	10M	30M
30~41		(64)	54		34	
41~68		(39.5)	29.5		34	
68~174		(64)	54		34	
174~230		(39.5)	29.5		34	
230~470		(64)	54		34	
470~760		45			40	
760~1000		59-57			40	

## 3. CISPR Pub. 22(EN50081-2)

Limits for conducted emissions (UNIT:dBuV, 1uV=0dB)

MHz	CLASS A		CLASS B	
	QUASI PEAK	AVERAGE	QUASI PEAK	AVERAGE
0.15~0.5	79	66	66-56	56-46
0.5~5			56	46
5~30			60	50
0.5~30	73	60		

Limits for radiated emission (UNIT:dB/M,1uV/M=odB/M)

MHz	CLASS A			CLASS B		
	3M	10M	30M	3M	10M	30M
30~230		(40)	30		30	
230~1000		(47)	37		37	

## 4. VFG 243

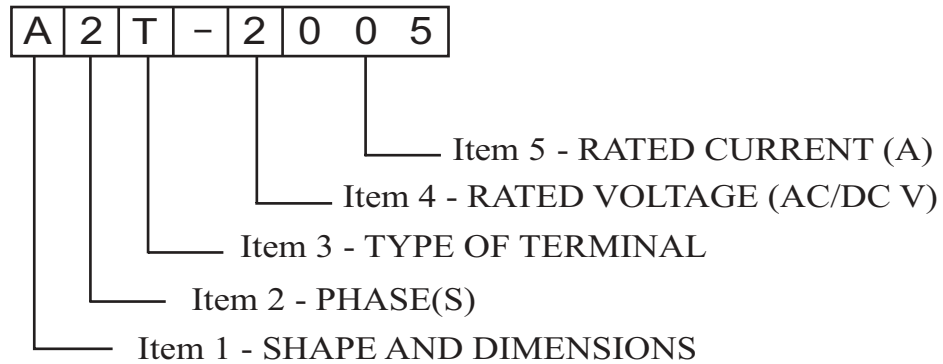
Limits for conducted emissions (UNIT:dBuV, 1uV=0dB)

MHz	CLASS A		CLASS B	
	QUASI PEAK	AVERAGE	QUASI PEAK	AVERAGE
0.01~0.05			110	100
0.05~0.15			90-80	80-70
0.15~0.5			66-56	56-46
0.5~5			56	46
5~30			60	50

Limits for radiated emission (UNIT:dB/M,1uV/M=odB/M)

MHz	CLASS A			CLASS B		
	3M	10M	30M	3M	10M	30M
30~230					34	
230~470					37	
470~1000					40	

# MODEL NUMBER STRUCTURE



## CODES

ITEM	DESCRIPTION
1	<p>SHAPE AND DIMENSIONS</p> <p>Shape and dimensions in millimeter (refer to drawing of shapes and dimensions)</p> <p>Ex: A : A case F : F case</p>
2	<p>PHASE</p> <p>Ex: 2 : 1-Phase 3 : 3-Phase</p>
3	<p>TYPE OF TERMINAL</p> <p>P : PCB-mountable F : For use with faston terminals T : Stud type</p>
4	<p>RATED VOLTAGE (AC/DC V)</p> <p>Ex: 2 : 250V 4 : 450V</p>
5	<p>RATED CURRENT (A)</p> <p>Ex: 0R5 : 0.5A 1R5 : 1.5A 005 : 5A 120 : 120A 500 : 500A</p>

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# EMI/EMC FILTER

# THREE PHASE

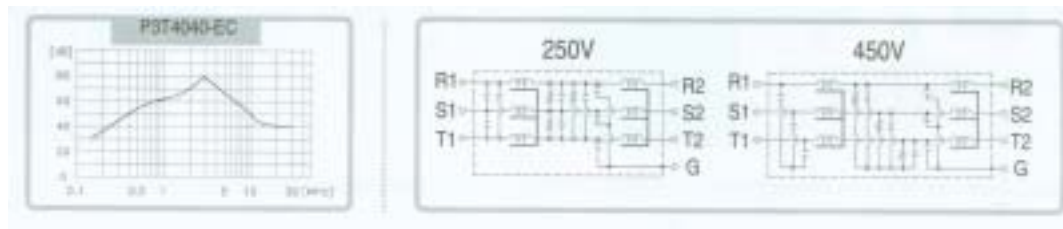
## P3T SERIES



### APPLICATION

Premium high attenuation 2 stage filter designed to provide the best filtering of conducted noise in switching circuits that must comply with military standards. It is the highest performance filter in this catalog.

MODEL	P3T*005 -AC	P3T*010 -AC	P3T*015 -DC	P3T*020 -DC	P3T*030 -EC	P3T*040 -EC	P3T*050 -FC	P3T*060 -FC	P3T*080 -HC	P3T*100 -HC	P3T*120 -HC	P3T*150 -HC
RATED VOLTAGE	* : 2 → 250V						* : 4 → 450V					
RATED CURRENT	5A	10A	15A	20A	30A	40A	50A	60A	80A	100A	120A	150A
LEAKAGE CURRENT	250V : 60Hz < 0.9mA						450V : 60Hz < 1.6mA					
DIMENSION PAGE 16-17	A3H		D3H		E3H		F3H		H3H			



# EMI/EMC FILTER

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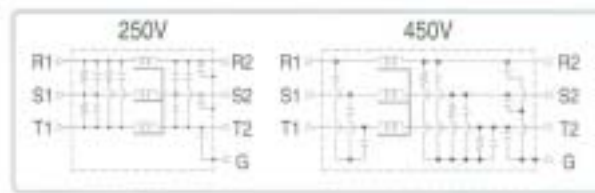
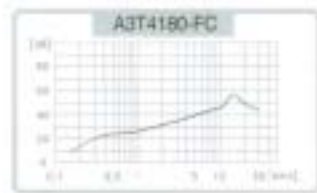
## A3T SERIES



### APPLICATION

Most popular and cost effective 3 Phase EMI Filter for all electronic equipment, power supplies, motor centrals, UPS. Available in Delta and Wye configuration and covers the range up to 300A. Effective in the range of 150Hz to 50Mhz.

MODEL	A3T*005 -AC	A3T*010 -AC	A3T*015 -AC	A3T*020 -AC	A3T*030 -DC	A3T*040 -DC	A3T*050 -EC	A3T*060 -EC	A3T*080 -EC	A3T*100 -EC	A3T*120 -FC	A3T*150 -FC	A3T*180 -FC	A3T*200 -HC	A3T*250 -HC	A3T*300 -HC
RATED VOLTAGE	* : 2 → 250V									* : 4 → 450V						
RATED CURRENT	5A	10A	15A	20A	30A	40A	50A	60A	80A	100A	120A	150A	180A	200A	250A	300A
LEAKAGE CURRENT	250V : 60Hz < 0.9mA									450v : 60hZ < 1.6mA						
DIMENSION PAGE 16-17	A3H				D3H			E3H			F3H			H3H		



## C3T SERIES

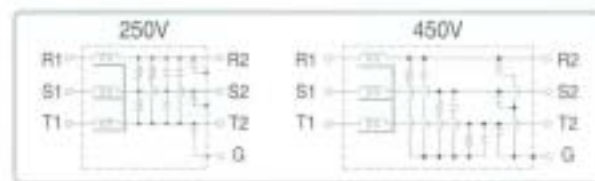
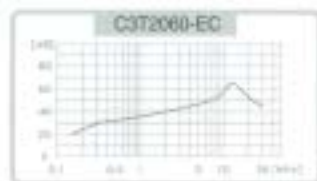


### APPLICATION

Premium, high attenuation 3 Phase filter especially suitable for switching power supplies and inverters.

This series are equipped with screw terminals and encapsulated with Epoxy for severe shock and vibration. The C3T series is recommended for military applications.

MODEL	C3T*005 -AC	C3T*010 -AC	C3T*015 -AC	C3T*020 -AC	C3T*030 -DC	C3T*040 -DC	C3T*050 -EC	C3T*060 -EC	C3T*080 -EC	C3T*100 -EC	C3T*120 -FC	C3T*150 -FC	C3T*180 -FC	C3T*200 -HC	C3T*250 -HC	C3T*300 -HC
RATED VOLTAGE	* : 2 → 250V									* : 4 → 450V						
RATED CURRENT	5A	10A	15A	20A	30A	40A	50A	60A	80A	100A	120A	150A	180A	200A	250A	300A
LEAKAGE CURRENT	250V : 60Hz < 0.9mA									450v : 60hZ < 1.6mA						
DIMENSION PAGE 16-17	A3H				D3H			E3H			F3H			H3H		



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File: A5269

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tdisales@theallpower.com

# EMI/EMC FILTER

# SINGLE PHASE

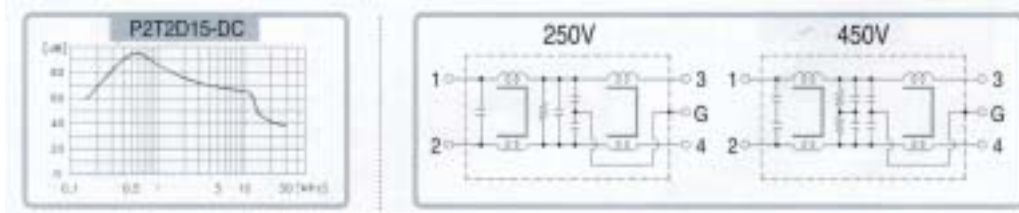
## P2T SERIES



### APPLICATION

General purpose EMI Filter for electronic equipment and power supplies . The filter contain 2 stages for high common mode noise attenuation, covers American as well as European utility voltage and comes in a wide range of current up to 150A. Suitable particularly to switching power supplies and UPS.

MODEL	P2T2003 -BC	P2T*005 -AC	P2T*010 -AC	P2T*015 -DC	P2T*020 -DC	P2T*030 -EC	P2T*040 -EC	P2T*050 -FC	P2T*060 -FC	P2T*080 -HC	P2T*100 -HC	P2T*120 -HC	P2T*150 -HC
RATED VOLTAGE	* : 2 → 250V						* : 4 → 450V						
RATED CURRENT	3A	5A	10A	15A	20A	30A	40A	50A	60A	80A	100A	120A	150A
LEAKAGE CURRENT	250V : 60Hz < 0.5mA						450v : 60hZ < 0.9mA						
DIMENSION PAGE 16-17	B2H	A2H		D2H		E2H		F2H		H2H			



# EMI/EMC FILTER

# SINGLE PHASE

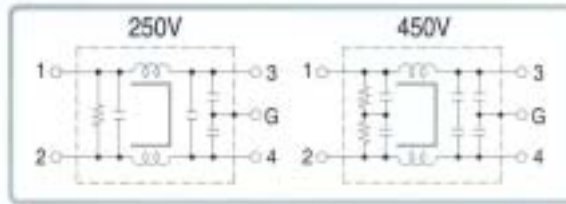
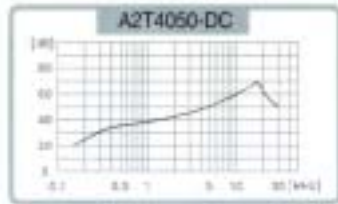
## A2T SERIES



### APPLICATION

General purpose single stage EMI Filter, cost effective and useful down to 150Khz. Most effective in the frequency range 0.5 Mhz to 30Mhz. Epoxy encapsulated for severe shock and vibration. Screw terminals for input and output.

MODEL	A2T*005 -BC	A2T*010 -BC	A2T*015 -AC	A2T*020 -AC	A2T*030 -DC	A2T*040 -DC	A2T*050 -EC	A2T*060 -EC	A2T*080 -EC	A2T*100 -EC	A2T*120 -FC	A2T*150 -FA	A2T*180 -FA	A2T*200 -HC	A2T*250 -HC	A2T*300 -HC	A2T*350 -HC	A2T*400 -HC
RATED VOLTAGE	* : 2 → 250V										* : 4 → 450V							
RATED CURRENT	5A	10A	15A	20A	30A	40A	50A	60A	80A	100A	120A	150A	180A	200A	250A	300A	350A	400A
LEAKAGE CURRENT	250 : 60Hz < 0.5mA										450V : 60Hz < 0.9mA							
DIMENSION PAGE 16-17	B2H		A2H		D2H		E2H			F2H			H2H					



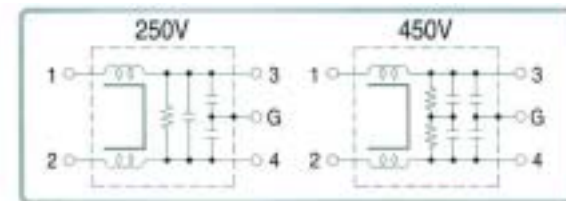
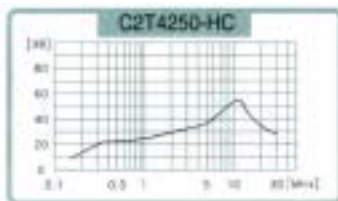
## C2T SERIES



### APPLICATION

General purpose single stage EMI Filter. Not as effective as the A2T Series in the low range below 300 KHz. Screw terminals and Epoxy encapsulated. Available up to 400A.

MODEL	C2T*005 -BC	C2T*010 -BC	C2T*015 -AC	C2T*020 -AC	C2T*030 -DC	C2T*040 -DC	C2T*050 -EC	C2T*060 -EC	C2T*080 -EC	C2T*100 -EC	C2T*120 -FC	C2T*150 -FA	C2T*180 -FA	C2T*200 -HC	C2T*250 -HC	C2T*300 -HC	C2T*350 -HC	C2T*400 -HC
RATED VOLTAGE	* : 2 > 250V										* : 4 → 450V							
RATED CURRENT	5A	10A	15A	20A	30A	40A	50A	60A	80A	100A	120A	150A	180A	200A	250A	300A	350A	400A
LEAKAGE CURRENT	250 : 60Hz < 0.5mA										450V : 60Hz < 0.9mA							
DIMENSION PAGE 16-17	B2H		A2H		D2H		E2H			F2H			H2H					



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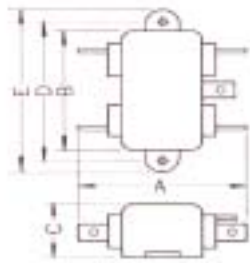


ISO 9002  
File: A5269

PART NUMBERING SYSTEM:

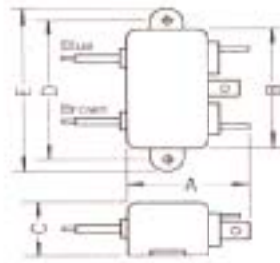


DIMENSIONS:



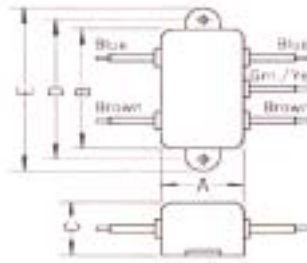
Typical dimensions:  
 Factor: 200 (1) holes: 0T Dia  
 Face to face: 6.35 (1/4")  
 Mounting hole: 1.98 (3/16")  
 4.78 (3/8")

FIG. 1.



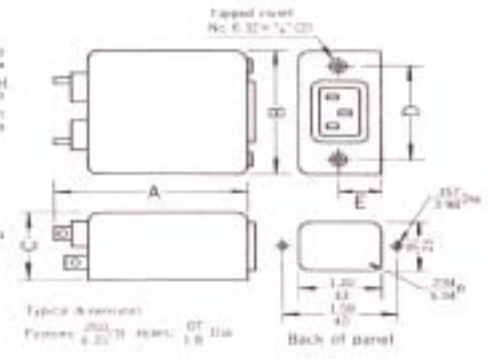
Typical dimensions:  
 Factor: 250 (1) holes: 0T Dia  
 Face to face: 8.0 (5/8")  
 Mounting hole: 2.25 (9/16")  
 3.18 (1/4")

FIG. 2.



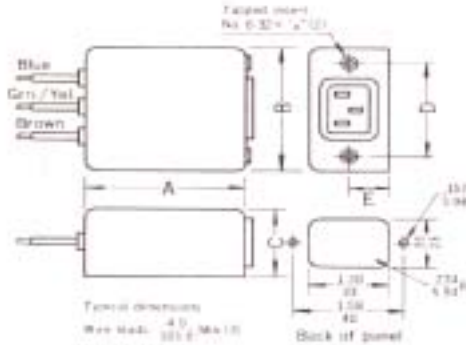
Typical dimensions:  
 Face to face: 10.0 (3/4")  
 Mounting hole: 2.54 (1/4")  
 4.78 (3/8")

FIG. 3.



Typical dimensions:  
 Factor: 200 (1) holes: 0T Dia  
 Face to face: 6.35 (1/4")  
 4.78 (3/8")

FIG. 4.



Typical dimensions:  
 Face to face: 10.0 (3/4")  
 Mounting hole: 2.54 (1/4")  
 4.78 (3/8")

FIG. 5.

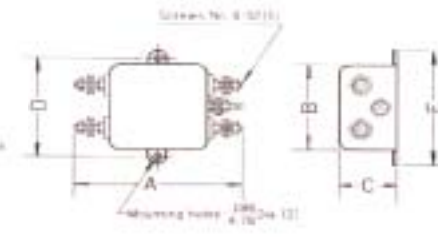


FIG. 6.

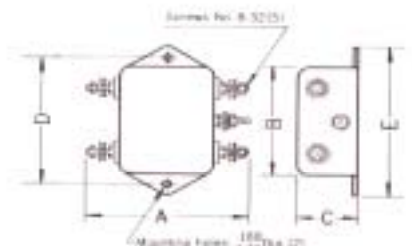


FIG. 7.

CURRENT RATING	PART NO.	FIG.	DIMENSIONS									
			A(max)		B(max)		C(max)		D*		E(max)	
1A	01BA1	1	75.7	2.98	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	01BA2	2	60.8	2.39	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	01BA3	3	45.9	1.81	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	01BA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	01BA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
2A	02BA1	1	75.7	2.98	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	02BA2	2	60.8	2.39	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	02BA3	3	45.9	1.81	52.4	2.06	23.1	0.91	60.4	2.38	71.3	2.81
	02BA4	4	81.4	3.21	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	02BA5	5	66.4	2.61	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
3A	03BA1	1	75.7	2.98	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	03BA2	2	60.8	2.39	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	03BA3	3	45.9	1.81	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	03BA4	4	81.4	3.21	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	03BA5	5	66.4	2.61	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
5A	05BA1	1	75.7	2.98	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	05BA2	2	60.8	2.39	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	05BA3	3	45.9	1.81	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	05BA4	4	81.4	3.21	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	05BA5	5	66.4	2.61	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
10A	10BA1	1	82.0	3.23	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	10BA2	2	67.2	2.65	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	10BA3	3	52.4	2.06	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	10BA4	4	92.5	3.64	57.2	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	10BA6	6	87.9	3.46	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	20A	20BA1	1	82.0	3.23	65.0	2.56	38.8	1.53	74.7	2.94	85.1
	20BA7	7	87.9	3.46	65.0	2.56	38.8	1.53	74.7	2.94	85.1	3.35

\* Tolerance ±0.38mm (±0.015 inch)  
 + Tolerance ±0.50mm (±0.020 inch)

Unit:  mm  inch

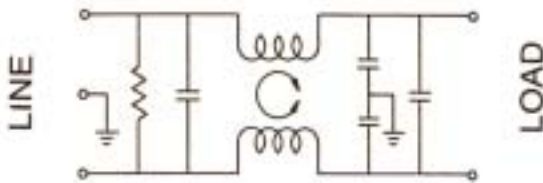


**INTRODUCTION:**

The BA Series RFI/EMI POWER LINE FILTERS are designed for general purpose to reduce line-to-ground & line-to-line interference. These filters are enclosed with metal case of various termination styles for mounting on any equipment.

The BA series power line filters are ideal for computers and heripheral equipments where pulsed, continuous and/or itermittent EMI interference is present. Safety and construction are in compliance with UL, CSA, and all VDE standards. UL File No. E88581, CSA File No. LR 55603, VDE File No. 12251-4730-1002

**ELECTRICAL SCHEMATIC:**



**APPLICATIONS:**

1. Computers and pehripheral equipments.
2. Digital precision instruments.
3. Data processing equipments.
4. Switching power supplies.
5. Other electronic equipments.

**5. TEST VOLTAGE**

Line to Ground: 2250VDC, one minute.  
Line to Line: 1450VDC, one minute.

**6. TYPICAL INSERTION LOSS (dB)**

Line to Ground in 50 ohm system.

**SPECIFICATIONS:**

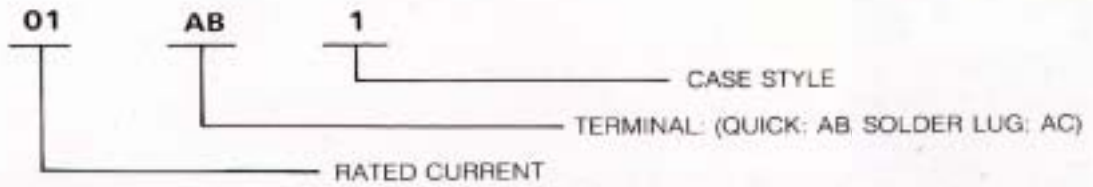
1. RATED VOLTAGE: 115/250vAC
2. POWER LINE FREQUENCY: 50/60 hZ.
3. RATED CURRENT: 1, 3, 5, 10 and 20 Amps
4. MAXIMUN LEAKAGE CURRENT:  
Line to Ground @ 115 VAC 60 Hz 0.5mA.  
@ 250 VAC 50 Hz 1.0mA

CURRENT RATING	FREQUENCY (Mhz)					
	0.15	0.5	1	5	10	30
1A, 2A, 3A	15	30	38	50	50	50
5A, 10A, 20A	8	22	28	42	45	50

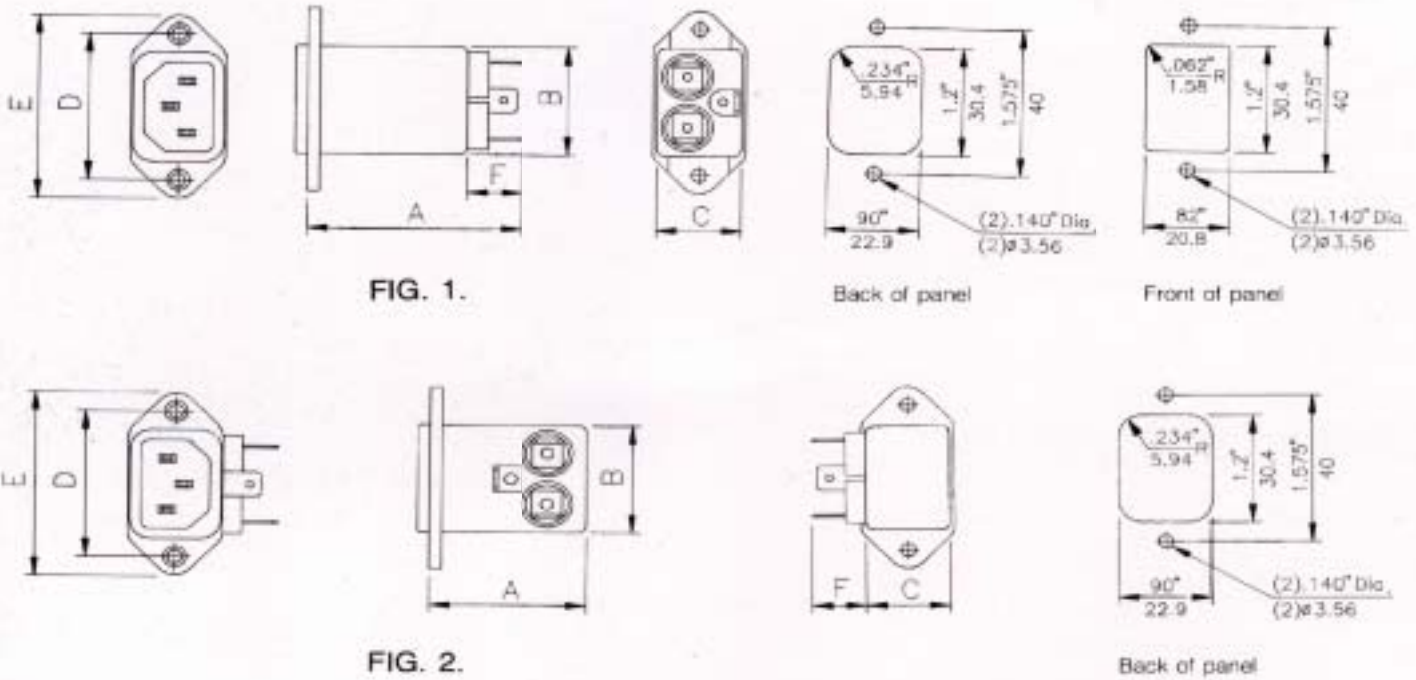
JAN. 1992



PART NUMBERING SYSTEM:



DIMENSIONS:



CURRENT RATING	PART NO.	FIG.	DIMENSIONS											
			A(max)		B(max)		C(max)		D*		E(max)		F(max)	
1A	01AB1	1	55.9	2.20	30.1	1.19	20.6	0.81	40.1	1.58	50.3	1.98	14.5	0.57
	01AC1	1	50.6	1.99	30.1	1.19	20.6	0.81	40.1	1.58	50.3	1.98	11.6	0.46
	01AB2	2	39.4	1.55	30.1	1.19	21.6	0.85	40.1	1.58	50.3	1.98	14.5	0.57
	01AC2	2	39.4	1.55	30.1	1.19	21.6	0.85	40.1	1.58	50.3	1.98	11.6	0.46
3A	03AB1	1	55.9	2.20	30.1	1.19	20.6	0.81	40.1	1.58	50.3	1.98	14.5	0.57
	03AC1	1	50.6	1.99	30.1	1.19	20.6	0.81	40.1	1.58	50.3	1.98	11.6	0.46
	03AB2	2	39.4	1.55	30.1	1.19	21.6	0.85	40.1	1.58	50.3	1.98	14.5	0.57
	03AC2	2	39.4	1.55	30.1	1.19	21.6	0.85	40.1	1.58	50.3	1.98	11.6	0.46
6A	06AB1	1	55.9	2.20	30.1	1.19	20.6	0.81	40.1	1.58	50.3	1.98	14.5	0.57
	06AC1	1	50.6	1.99	30.1	1.19	20.6	0.81	40.1	1.58	50.3	1.98	11.6	0.46
	06AB2	2	39.4	1.55	30.1	1.19	21.6	0.85	40.1	1.58	50.3	1.98	14.5	0.57
	06AC2	2	39.4	1.55	30.1	1.19	21.6	0.85	40.1	1.58	50.3	1.98	11.6	0.46

\* Tolerance ±0.38mm (±0.015 inch)

Unit:  mm  inch

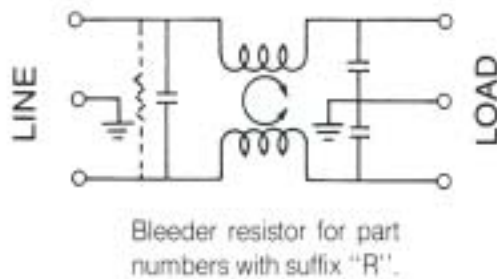


## INTRODUCTION:

The AB & AC Series RFI/EMI POWER LINE FILTERS are designed for general purpose to reduce line-to-ground (common mode) interference. They are compact, with IEC power line connector, and can be easily mounted on the panel of instruments. These filters meet the requirements while operating on AC lines of 115 to 250 volts 50/60Hz, and are available in current ratings of 1, 3 and 6 Amps. Safety and construction are in compliance with UL, CSA, VDE, NEMKO, SEV, SETI, SEMKO and DEMKO.



## ELECTRICAL SCHEMATIC:



## APPLICATIONS:

1. Computers and peripheral equipments.
2. Digital precision instruments.
3. Data processing equipments.
4. Switching power supplies.
5. Other electronic equipments.

## 5. TEST VOLTAGE

Line to Ground: 2250VDC, one minute.  
Line to Line: 1450VDC, one minute.

## 6. TYPICAL INSERTION LOSS (dB)

Line to Ground in 50 ohm system.

## SPECIFICATIONS:

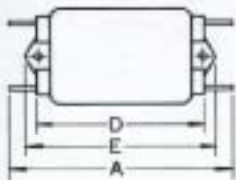
1. RATED VOLTAGE: 115/250vAC
2. POWER LINE FREQUENCY: 50/60 Hz.
3. RATED CURRENT: 1, 3 AND 6 Amps
4. MAXIMUM LEAKAGE CURRENT:  
Line to Ground @ 115 VAC 60 Hz 0.25mA.  
@ 250 VAC 50 Hz 0.50mA

CURRENT RATING		FREQUENCY (Mhz)					
		0.15	0.5	1	5	10	30
1A	S	20	33	40	45	47	50
	E	26	36	44	50	50	53
3A	S	15	25	30	45	50	53
	E	24	30	38	47	50	55
6A	S	10	20	25	42	45	50
	E	15	25	32	44	48	55

PART NUMBERING SYSTEM:

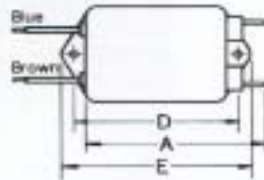
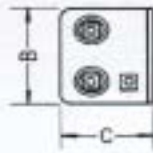


DIMENSIONS:



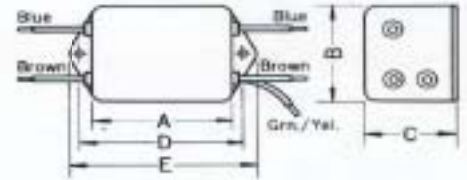
Typical dimensions  
Fastons: 250 (5) Holes: .07 Dia  
Mounting holes: 188 Dia (2)

FIG. 1.



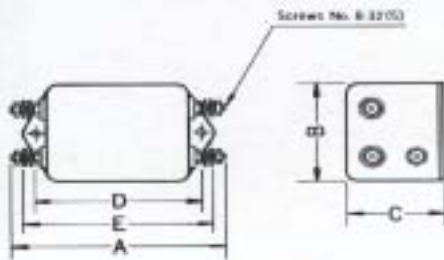
Typical dimensions  
Fastons: 350 (3) Holes: .07 Dia  
Wire leads: 4.0 Min (2)  
Mounting holes: 188 Dia (2)

FIG. 2.



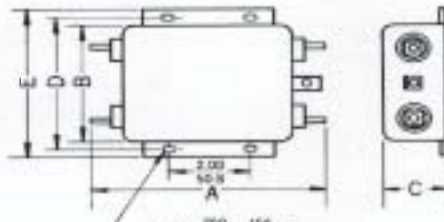
Typical dimensions  
Wire leads: 4.0 Min (2)  
Mounting holes: 188 Dia (2)

FIG. 3.



Typical dimensions  
Mounting holes: 188 Dia (2)

FIG. 4.



Typical dimensions  
Fastons: 250 (5) Holes: .07 Dia

FIG. 5.

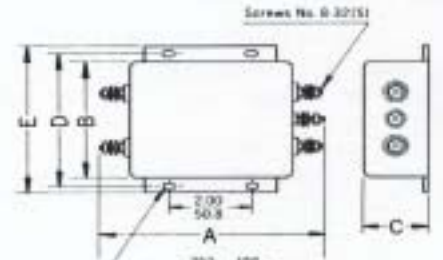


FIG. 6.

CURRENT RATING	PART NO.	FIG.	DIMENSIONS									
			A(max)		B(max)		C(max)		D*		E(max)	
1A	01CA1	1	82.0	3.23	45.9	1.81	29.4	1.16	60.4	2.38	70.6	2.78
	01CA2	2	67.2	2.65	45.9	1.81	29.4	1.16	60.4	2.38	70.6	2.78
	01CA3	3	52.4	2.06	45.9	1.81	29.4	1.16	60.4	2.38	70.6	2.78
2A	02CA1	1	82.0	3.23	45.9	1.81	29.4	1.16	60.4	2.38	70.6	2.78
	02CA2	2	67.2	2.65	45.9	1.81	29.4	1.16	60.4	2.38	70.6	2.78
	02CA3	3	52.4	2.06	45.9	1.81	29.4	1.16	60.4	2.38	70.6	2.78
3A	03CA1	1	94.7	3.73	52.4	2.06	29.4	1.16	74.7	2.94	85.1	3.35
	03CA2	2	79.9	3.15	52.4	2.06	29.4	1.16	74.7	2.94	85.1	3.35
	03CA3	3	65.0	2.56	52.4	2.06	29.4	1.16	74.7	2.94	85.1	3.35
5A	05CA1	1	94.7	3.73	52.4	2.06	29.4	1.16	74.7	2.94	85.1	3.35
	05CA2	2	79.9	3.15	52.4	2.06	29.4	1.16	74.7	2.94	85.1	3.35
	05CA3	3	65.0	2.56	52.4	2.06	29.4	1.16	74.7	2.94	85.1	3.35
10A	10CA1	1	94.7	3.73	52.4	2.06	38.8	1.53	74.7	2.94	85.1	3.35
	10CA2	2	79.9	3.15	52.4	2.06	38.8	1.53	74.7	2.94	85.1	3.35
	10CA3	3	65.0	2.56	52.4	2.06	38.8	1.53	74.7	2.94	85.1	3.35
	10CA4	4	100.6	3.96	52.4	2.06	38.8	1.53	74.7	2.94	85.1	3.35
20A	20CA5	5	129.7	5.11	85.6	3.37	38.8	1.53	95.3	3.75	106.7	4.20
	20CA6	6	135.6	5.34	85.6	3.37	38.8	1.53	95.3	3.75	106.7	4.20

\*Tolerance: ± 0.38mm ( ± 0.015 inch)



## INTRODUCTION:

The CA Series RFI/EMI POWER LINE FILTERS are designed for low impedance loads to suppress line-to-ground & line-to-line interference. These filters are enclosed with metal case of various termination styles for mounting on any equipment.

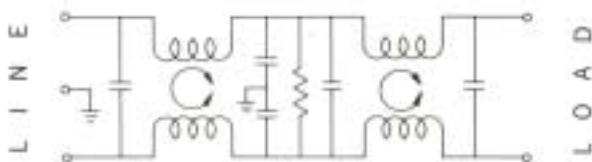
The CA series power line filters are ideal for computers and peripheral equipments where pulsed, continuous and/or intermittent EMI interference is present.

By dual T type circuit, the CA Series provides extremely low leakage current and premium performance at moderate cost.

Safety and construction are in compliance with UL, CSA and VDE standards. UL File No. E88581, CSA File No. LR 59234, VDE File No. 12251-4730-1002



## ELECTRICAL SCHEMATIC:



## APPLICATIONS:

1. Computers and peripheral equipments.
2. Digital precision instruments.
3. Data processing equipments.
4. Switching power supplies.
5. Other electronic equipments.

### 5. TEST VOLTAGE

Line to Ground: 2250VDC, one minute.  
Line to Line: 1450VDC, one minute.

### 6. TYPICAL INSERTION LOSS (dB)

Line to Ground in 50 ohm system.

## SPECIFICATIONS:

1. RATED VOLTAGE: 115/250VAC
2. POWER LINE FREQUENCY: 50/60 Hz.
3. RATED CURRENT: 1, 2, 3, 5, and 20 Amps
4. MAXIMUM LEAKAGE CURRENT:  
Line to Ground @ 115 VAC 60 Hz 0.5mA.  
@ 250 VAC 50 Hz 1.0mA

CURRENT RATING	FREQUENCY (Mhz)					
	0.15	0.5	1	5	10	30
1A, 2A, 3A	30	65	65	65	65	60
5A, 10A, 20A	11	50	62	65	65	60

THE **ALLPOWER** SOURCE

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Phone (201) 385-0500 Fax (201) 385-0702  
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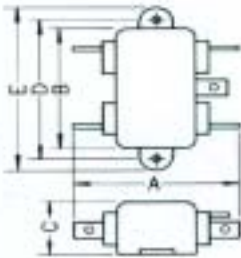


ISO 9002  
File: A5269

**PART NUMBERING SYSTEM:**

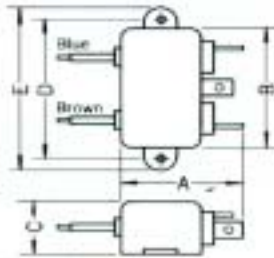


**DIMENSIONS:**



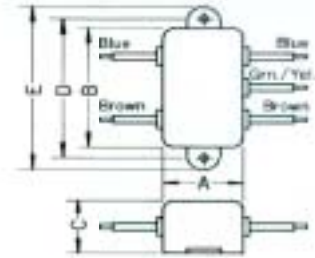
Typical dimensions  
Fasteners: 250 (2) Holes: .07 Dia.  
6.35 1.8  
Mounting holes: 2.75 (Dia 12)

**FIG. 1.**



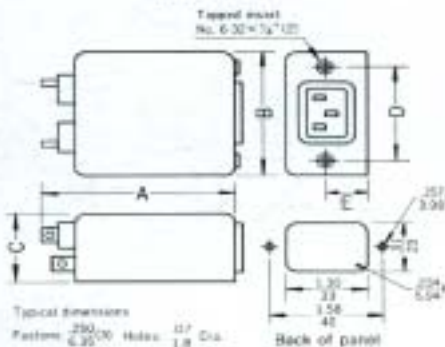
Typical dimensions  
Fasteners: 250 (2) Holes: .07 Dia.  
6.35 1.8  
Wire leads: 4.0 Min (2)  
101.6  
Mounting holes: 1.98 (Dia 12)  
4.75

**FIG. 2.**



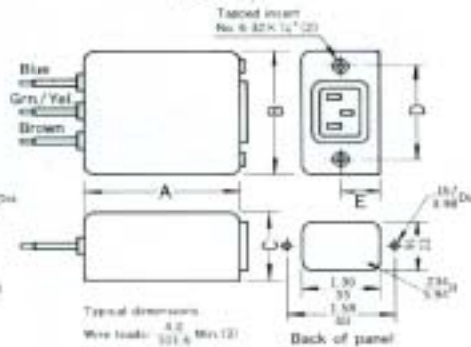
Typical dimensions  
Fasteners: 4.0  
Wire leads: 101.6 Min (2)  
Mounting holes: 1.98 (Dia 12)  
4.75

**FIG. 3.**



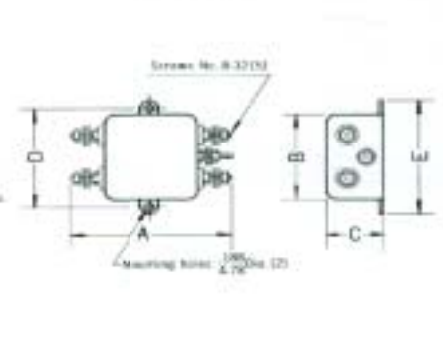
Typical dimensions  
Fasteners: 250 (2) Holes: .07 Dia.  
6.35 1.8  
Back of panel

**FIG. 4.**



Typical dimensions  
Fasteners: 4.0  
Wire leads: 101.6 Min (2)  
Back of panel

**FIG. 5.**



Typical dimensions  
Fasteners: 4.0  
Wire leads: 101.6 Min (2)  
Back of panel

**FIG. 6.**

CURRENT RATING	PART NO.	FIG.	DIMENSIONS									
			A(max)		B(max)		C(max)		D*		E(max)	
1A	01AA1	1	53.4	2.10	45.9	1.81	16.7	0.66	54.1	2.13	64.2	2.53
	01AA2	2	38.9	1.53	45.9	1.81	16.7	0.66	54.1	2.13	64.2	2.53
	01AA3	3	24.3	0.96	45.9	1.81	16.7	0.66	54.1	2.13	64.2	2.53
	01AA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	01AA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
2A	02AA1	1	53.4	2.10	45.9	1.81	16.7	0.66	54.1	2.13	64.2	2.53
	02AA2	2	38.9	1.53	45.9	1.81	16.7	0.66	54.1	2.13	64.2	2.53
	02AA3	3	24.3	0.96	45.9	1.81	16.7	0.66	54.1	2.13	64.2	2.53
	02AA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	02AA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
3A	03AA1	1	63.5	2.50	45.9	1.81	19.9	0.78	54.1	2.13	64.2	2.53
	03AA2	2	48.5	1.91	45.9	1.81	19.9	0.78	54.1	2.13	64.2	2.53
	03AA3	3	33.4	1.32	45.9	1.81	19.9	0.78	54.1	2.13	64.2	2.53
	03AA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	03AA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
5A	05AA1	1	63.5	2.50	45.9	1.81	19.9	0.78	54.1	2.13	64.2	2.53
	05AA2	2	48.5	1.91	45.9	1.81	19.9	0.78	54.1	2.13	64.2	2.53
	05AA3	3	33.4	1.32	45.9	1.81	19.9	0.78	54.1	2.13	64.2	2.53
	05AA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	05AA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
10A	10AA1	1	63.5	2.50	45.9	1.81	29.4	1.16	54.1	2.13	64.2	2.53
	10AA2	2	48.5	1.91	45.9	1.81	29.4	1.16	54.1	2.13	64.2	2.53
	10AA3	3	33.4	1.32	45.9	1.81	29.4	1.16	54.1	2.13	64.2	2.53
	10AA4	4	81.4	3.21	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	10AA5	5	66.4	2.61	57.1	2.25	32.4	1.28	40.1	1.58	16.0+	0.63+
	10AA6	6	69.1	2.72	45.9	1.81	29.4	1.16	54.1	2.13	64.2	2.53
20A	20AA1	1	82.0	3.23	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81
	20AA6	6	87.9	3.46	52.4	2.06	29.4	1.16	60.4	2.38	71.3	2.81

\* Tolerance: -0.38mm (-0.015 inch)  
+ Tolerance: -0.50mm (-0.020 inch)

Unit:  mm  inch

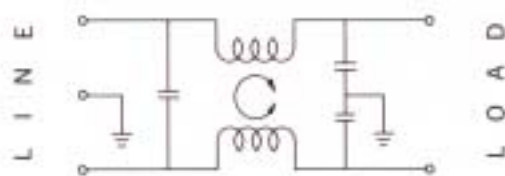


## INTRODUCTION:

The AA Series RFI/EMI POWER LINE FILTERS are designed for general purpose to suppress line-to-ground interference in a small size at the lowest cost. These filters are enclosed with metal case of various termination styles for mounting on any equipment.

Safety and construction are in compliance with UL, CSA, and VDE standards. UL File No. E88581, CSA File No. LR 59234, VDE File No. 12251-4730-1002

## ELECTRICAL SCHEMATIC:



## APPLICATIONS:

1. Computers and peripheral equipments.
2. Digital precision instruments.
3. Data processing equipments.
4. Switching power supplies.
5. Other electronic equipments.

## SPECIFICATIONS:

1. RATED VOLTAGE: 115/250vAC
2. POWER LINE FREQUENCY: 50/60 hZ.
3. RATED CURRENT: 1, 2, 3, 5, 10 and 20 Amps
4. MAXIMUM LEAKAGE CURRENT:  
Line to Ground @ 115 VAC 60 Hz 0.5mA.  
@ 250 VAC 50 Hz 1.0mA



## 5. TEST VOLTAGE

Line to Ground: 2250VDC, one minute.  
Line to Line: 1450VDC, one minute.

## 6. TYPICAL INSERTION LOSS (dB)

Line to Ground in 50 ohm system.

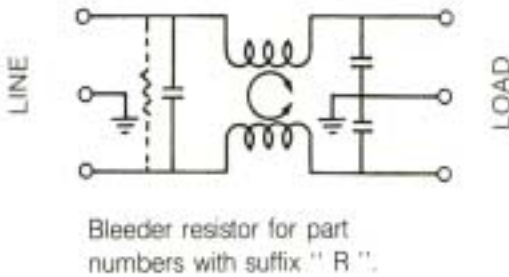
CURRENT RATING	FREQUENCY (Mhz)					
	0.15	0.5	1	5	10	30
1A, 2A, 3A	15	30	38	50	50	50
5A, 10A, 20A	8	22	28	40	45	50



## INTRODUCTION:

The AE & AF Series RFI/EMI POWER LINE FILTERS are designed for general purpose to reduce line-to-ground (common mode) interference. They are compact, with IEC power line connector, and can be easily mounted on the panel of instruments. These filters meet the requirements while operating on AC lines of 115 to 250 volts 50/60Hz, and are available in current ratings of 1, 3, 6, 8 and 10 Amps. Safety and construction are in compliance with UL, CSA, and all European safety standards such as VDE.

## ELECTRICAL SCHEMATIC:



## APPLICATIONS:

1. Computers and peripheral equipments.
2. Digital precision instruments.
3. Data processing equipments.
4. Switching power supplies.
5. Other electronic equipments.

## 5. TEST VOLTAGE

Line to Ground: 2250VDC, one minute.  
Line to Line: 1450VDC, one minute.

## 6. TYPICAL INSERTION LOSS (dB)

Line to Ground in 50 ohm system.

## SPECIFICATIONS:

1. RATED VOLTAGE: 115/250VAC
2. POWER LINE FREQUENCY: 50/60 Hz.
3. RATED CURRENT: 1, 3, 6 and 10 Amps
4. MAXIMUM LEAKAGE CURRENT:  
Line to Ground @ 115 VAC 60 Hz 0.25mA.  
@ 250 VAC 50 Hz 0.50mA

CURRENT RATING	FREQUENCY (Mhz)					
	0.15	0.5	1	5	10	30
1A	20	33	40	45	47	50
3A	15	25	30	45	50	53
6A	10	20	25	42	45	50
8A	9	18	23	40	43	48
10A	8	15	20	38	40	45

## ABBREVIATIONS WIDELY USED IN THE EMI SUPPRESSION FIELD

ABBREVIATION	DEFINITION
ANSI	American National Standards Institute
BSI	British Standards Institution
CBEMA	Computer and Business Equipment Manufacturers Association
CENELEC	Electrotechnical Committees in Europe (EC + Austria, Finland, Portugal, Spain, Sweden and Switzerland)
CEPT	Conference of European Postal and Telecommunications Administrations
CISPR	International Special committee on Radio Interference
CMRR	Common Mode Noise Reduction Ratio
CSA	Canadian Standard Association
DIN	German Standard Institute
DKE	German Electronical commission
ECE	Economic Commission for Europe
EEC	European Economic Community
EMC	Electromagnetic Compatibility
EMI	Electromagnetic Interference
EMS	Electromagnetic Suceptibility
ESD	Electrostatic Discharge
FCC	Federal Communications Commission
FG	Frame Ground
FTZ	Central Telecommunications Office
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
ISO	International Organization for Standardization
LISN	Line Impedance Stabilization Network
MIL	Military Standards and Specification
NEMA	National Electrical Manufacturers Association
RFI	Radio Frequency Interference
SFCG	Space Frequency Coordination Group
SG	Signal Ground
UL	Underwriters Laboratories
VCCI	Voluntary Control Council for Interference by data processing equipments and electronic office machines
VDE	Association of German Electrotechnical Engineers
WARC	World Administrative Radio Conference
ZZF	Central Approval Authority for Telecommunications Equipment

