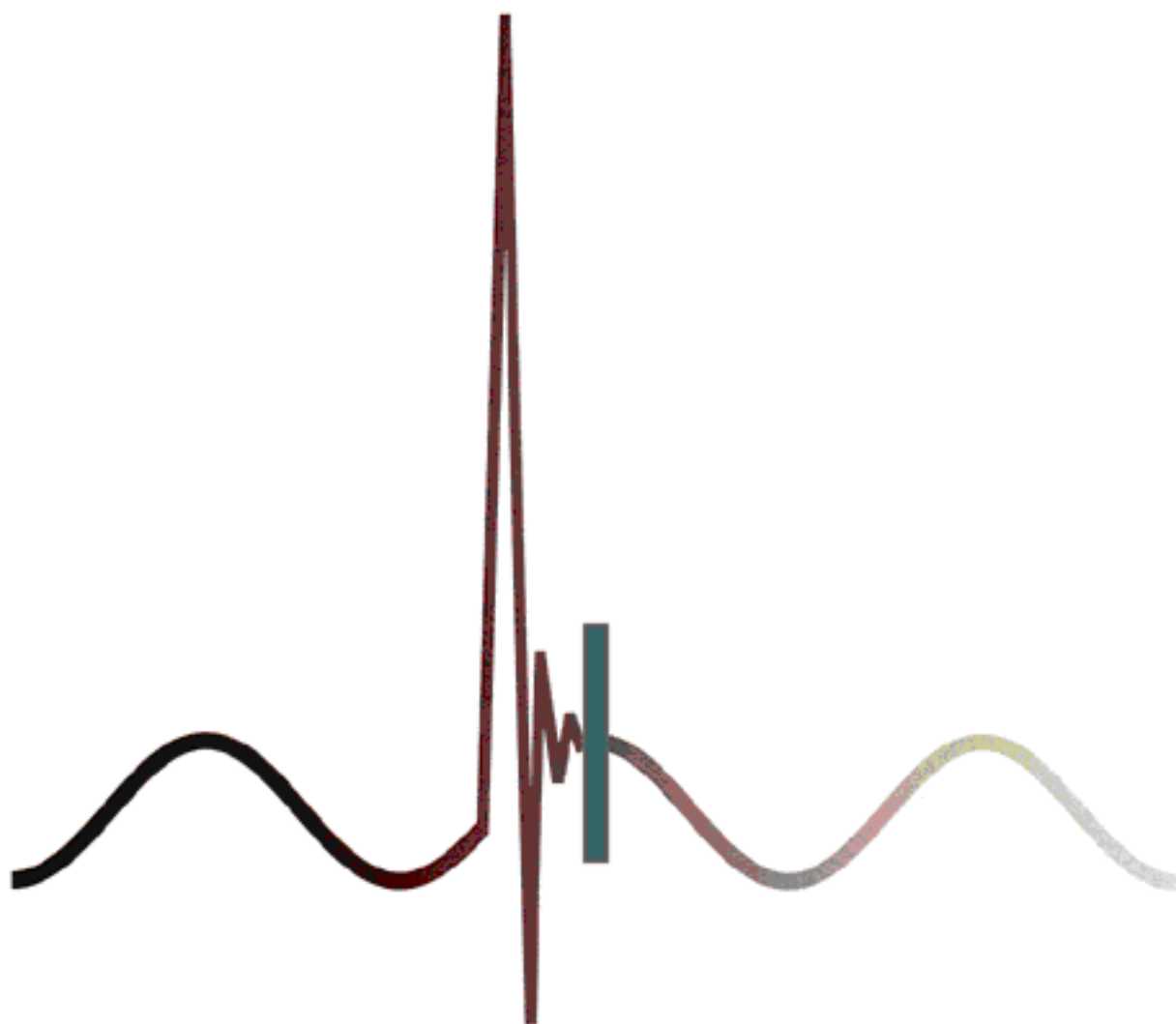


W O R L D P R O D U C T S

*INTERFERENCE SUPPRESSION FILTERS
for
APPLIANCES*



Protection Products Group



WORLD PRODUCTS INC.

Interference Suppression Filters for Appliances

These filters are designed for suppression of radio frequency signals in electrical equipment supplied with A.C. voltage not higher than 250 V/50-60 Hz and current intensity to 16 A, particularly in electrical household goods.

European laws require the usage of such filters on all household appliances. Therefore the manufactures of "white goods" and other appliances should have a special interest in using these filters in equipment produced in the U.S.A. and or in Europe for European markets.

Appliances of interest may include the following:

- Washers and Dryers
- Refrigerators
- Dish Washers
- Electrical/Microwave Ovens and Ranges
- Air Conditioning and other climatization equipment
- Vacuum Cleaners

Also in the U.S.A. within the next 1 - 2 years household appliances will be required to meet RFI suppression standards and thus use RFI filters.

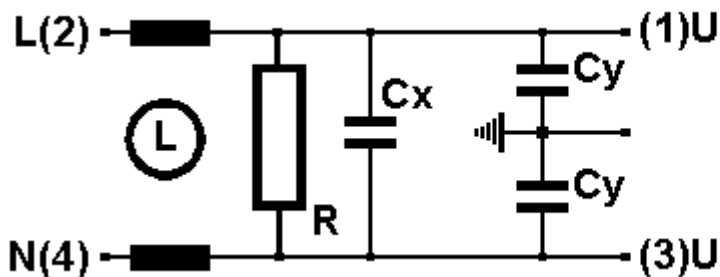
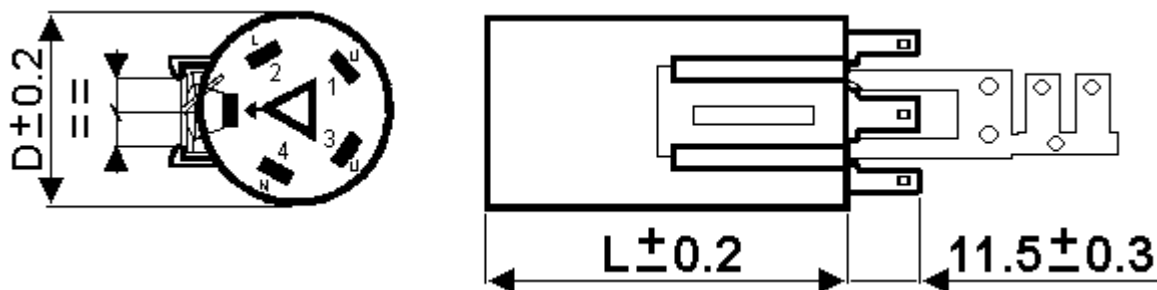
Our filters have a rating of 250VAC, therefore the same models can be used in Europe and U.S.A.

As self-contained modules with spade lug connectors they can be easily connected by flying leads even to existing designs, and conveniently mounted in any location.

Table of Contents

FLCR	Applications, Technical Data, Physical Dimensions
FP-250/16	Applications, Technical Data, Physical Dimensions
F3CF	Applications, Technical Data, Physical Dimensions
FLC	Applications, Technical Data, Physical Dimensions
FC	Applications, Technical Data, Physical Dimensions
FLCB	Applications, Technical Data, Physical Dimensions

FLCR - Interference Suppression Filters for Appliances



Application

FLCR filters are designed for suppression of radio frequency signals in electrical equipment supplied with A.C. voltage not higher than 250 V/50 Hz and current intensity to 16 A, particularly in electrical household goods.

The filters meet requirements of VDE 565-3 and EN133200, IMQ standards

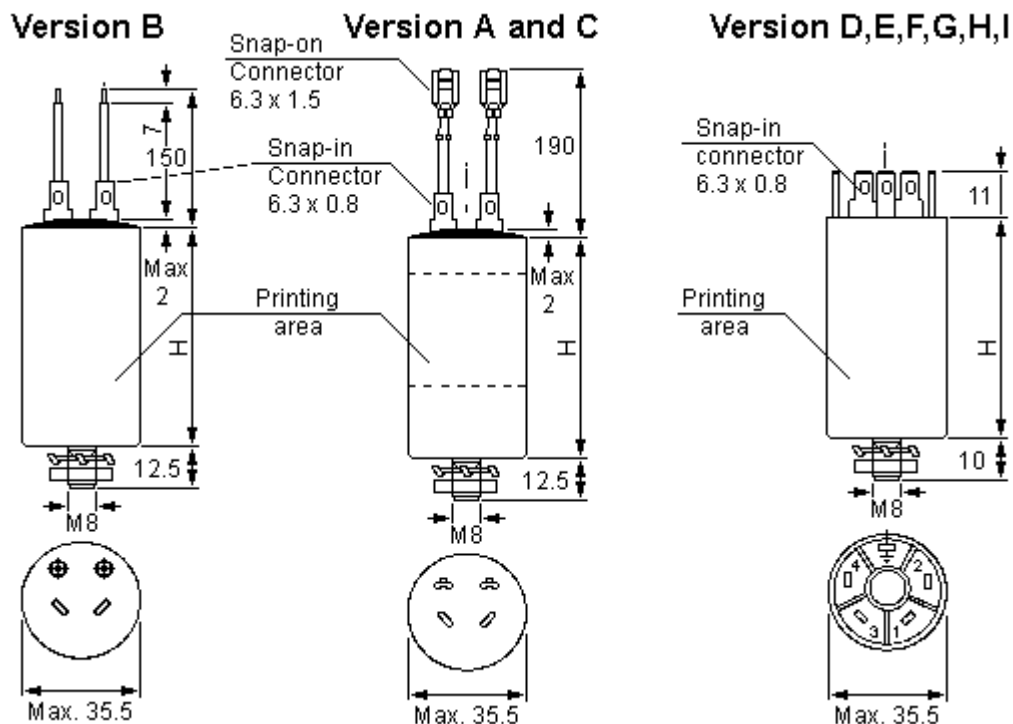
Technical Data

Climatic category	25/085/21
Rated voltage	250 VAC
Rated current	16 A
Specification	PR 1100-A

Part Number Specifications

Version	Capacity C		Inductance	Resistance	Dimensions	
	class X	class Y	L	R	D	L
	μF	nF	mH	M ohms	mm	mm
FLCR630501	0.47	2 x 10	2 x 1.0	0.68	38	56
FLCR470501	0.47	2 x 27	2 x 1.0	0.68	38	56

FP-250/16 - Interference Suppression Filters for Appliances



Application

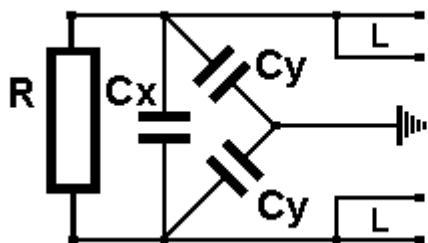
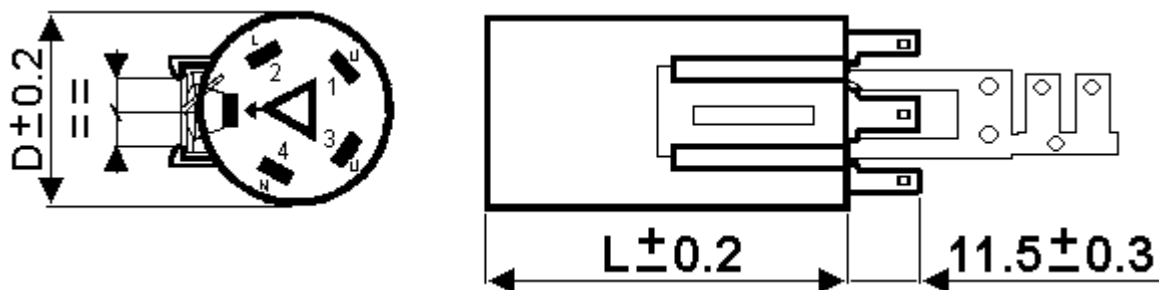
FP-250/16 filters are designed to suppress radio frequency interferences in equipment supplied with the a.c. voltage of 250V (50Hz) and with the current intensity not higher than 16A, particularly in household equipment, version A,B,C is made in aluminium cases and version D,E,F,G,H,I in plastic cases.

These filters have domestic safety mark "B" , VDE 565-3

Technical Data

Climatic category	25/085/21
Rated voltage	250 VAC
Rated current	16 A
Specification	WT-81/1-FP-250/15 + App. 2.

F3CF - Interference Suppression Filters for Appliances



Application

F3CF filters are designed for suppression of radio frequency signals in electrical equipment supplied with a.c. voltage not higher than 250 V / 50 Hz, particularly in electrical household goods. The case of the filter is made of plastic.

The filters meet requirements of VDE 565-1 standards

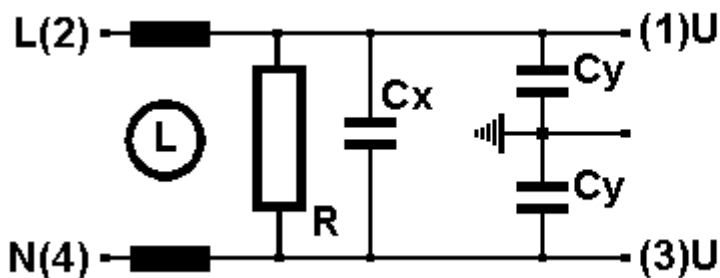
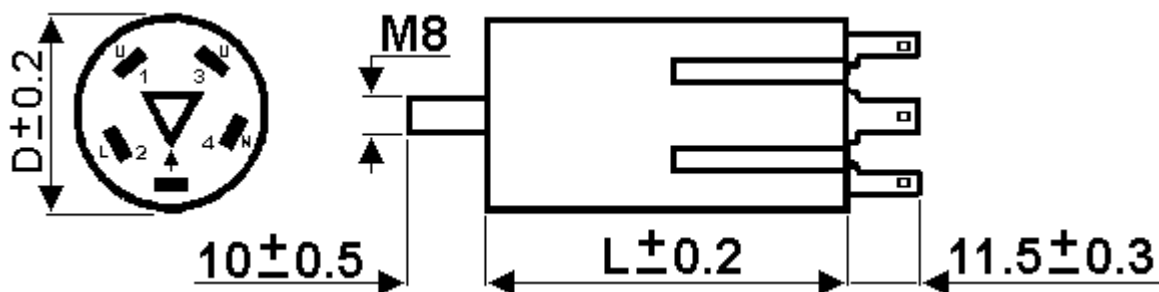
Technical Data

Climatic category	25/085/21
Rated voltage	250 VAC
Specification	PR 1100-A
Safety standards	IMQ, VDE 565-1, EN 132400

Part Number Specifications

Version	Capacity C		Resistance	Dimensions	
	class X	class Y	R	D	L
	μF	nF	M ohms	mm	mm
F3CF72102	0.1	2 x 27	2.2	38	38

FLC - Interference Suppression Filters for Appliances



Application

FLC filters are designed for suppression of radio frequency signals in electrical equipment supplied with a.c. voltage not higher than 250 V / 50 Hz and current intensity to 16 A, particularly in electrical household goods.

The filters meet requirements of VDE 565-3 and EN133200, IMQ standards

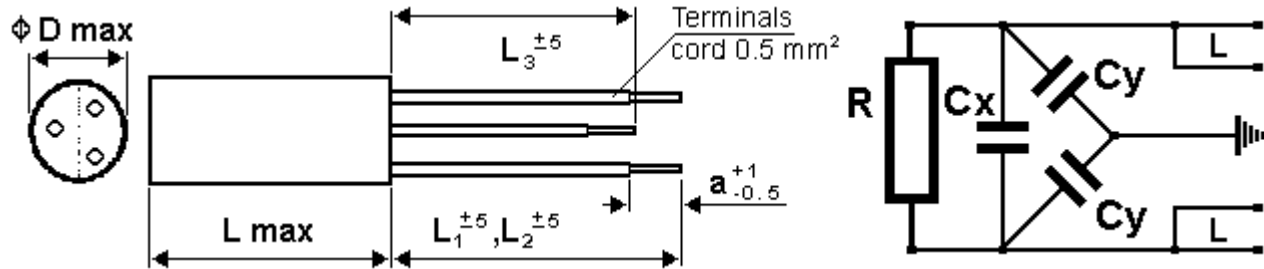
Technical Data

Climatic category	25/085/21
Rated voltage	250 VAC
Rated Current	16 A
Specification	PR 1100-A

Part Number Specifications

Version	Capacity C		Inductance	Resistance	Dimensions	
	class X	class Y	L	R	D	L
	µF	nF	mH	M ohms	mm	mm
FLC280501	0.47	2 x 27	2 x 0.5	0.68	38	56
FLC470501	0.47	2 x 27	2 x 10	0.68	38	56
FLC330501	0.47	2 x 10	2 x 0.5	0.68	38	56
FLC630501	0.47	2 x 10	2 x 10	0.68	38	56

FC - Interference Suppression Filters for Appliances



Application

FC filters are designed for suppression of radio frequency signals in electrical equipment supplied with a.c. voltage not higher than 250 V / 50 Hz and current intensity to 16 A, particularly in electrical household goods. The case of the filter is made of plastic.

Technical Data

Climatic category	25/085/21
Rated voltage	250 VAC
Specification	PR 1100-A
Safety standards	IMQ, VDE, EN132400

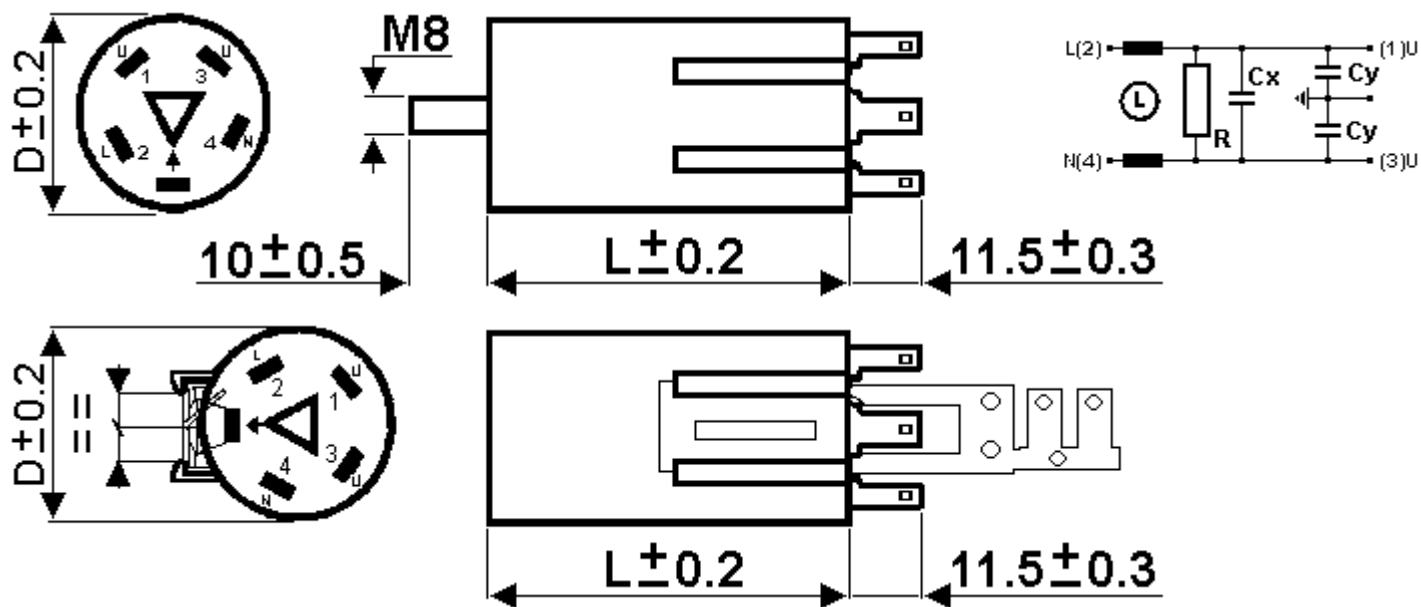
Part Number Specifications

Version	Capacity C		Resistance	Dimensions	
	class X	class Y	R	Φ D max	L max
	μ F	nF	M ohms	mm	mm
1	$0.1 \pm 20\%$	$2 \times 2.7 \pm 20\%$	$2.2 \pm 10\%$	16.5	40
2	$0.1 \pm 20\%$	$2 \times 27 \pm 20\%$	$2.2 \pm 10\%$	20.7	40
3	$0.1 \pm 20\%$	$2 \times 15 \pm 20\%$	$2.2 \pm 10\%$	20.7	40
4	$0.1 \pm 20\%$	$2 \times 4.7 \pm 20\%$	$2.2 \pm 10\%$	16.5	40
5	$0.1 \pm 20\%$	$2 \times 10 \pm 20\%$	$2.2 \pm 10\%$	16.5	40
6	$0.15 \pm 20\%$	$2 \times 5 \pm 20\%$	$1.5 \pm 10\%$	20.7	40
7	$0.15 \pm 20\%$	$2 \times 10 \pm 20\%$	$1.5 \pm 10\%$	20.7	40
8	$0.27 \pm 20\%$	$2 \times 47 \pm 20\%$	$1.0 \pm 10\%$	24.5	40
9	$0.27 \pm 20\%$	$2 \times 10 \pm 20\%$	$1.0 \pm 10\%$	24.5	40
10	$0.27 \pm 20\%$	$2 \times 15 \pm 20\%$	$1.0 \pm 10\%$	24.5	40
11	$0.27 \pm 20\%$	$2 \times 27 \pm 20\%$	$1.0 \pm 10\%$	24.5	40
12	$0.47 \pm 20\%$	$2 \times 10 \pm 20\%$	$0.68 \pm 10\%$	30	40
13	$0.47 \pm 20\%$	$2 \times 27 \pm 20\%$	$0.68 \pm 10\%$	30	40

On customer' demand the uncovered (not insulated) parts of terminals could be tinned or equipped with terminal connectors.

The different length of terminals and their uncovered parts are permitted upon earlier agreement.

FLCB - Interference Suppression Filters for Appliances



Application

FLCB filters are designed for suppression of radio frequency signals in electrical equipment supplied with a.c. voltage not higher than 250 V / 50 Hz and current intensity to 16 A, particularly in electrical household goods.

The filters meet requirements of VDE 565-3 and EN133200, IMQ standards

Technical Data

Climatic category	25/085/21
Rated voltage	250 VAC
Rated current	10 A
Specifications	PR 1100-A
Safety standards	IMQ, VDE 563-3, EN133200

Part Number Specifications

Version	Capacity C		Inductance	Resistance	Dimensions	
	class X	class Y	L	R	D	L
	μF	nF	mH	M ohms	mm	mm
FLCB921561	0.47	2 x 2.7	2 x 2	0.68	38	56
FLCB431561	0.47	2 x 4.7	2 x 2	0.68	38	56
FLCB931561	0.47	2 x 10	2 x 2	0.68	38	56
FLCB130561	0.15	2 x 4.7	2 x 0.5	0.68	38	56
FLCB933561	0.47	2 x 10	2 x 2	0.68	38	56
FLCB923561	0.47	2 x 2.7	2 x 2	0.68	38	56