

# LC Filter

## Features

- The noise-rejection band can be requested by selecting the capacitors capacitance as required.
- These filters serve as an excellent countermeasure against noise since they provide high attenuation over a wide band of frequency from 10 to 1,000MHz.
- Epoxy powder exteriors provide solid strength and stable lead pitches to assure optimum suitability for automatic inserting operation.
- Compact size allows high density PCB mounting for 2.5mm steps.

## Applications

- Computers and peripheral equipment, word processors, facsimiles.
- Digital controlled equipment and electronic type writer, program controllers.
- Automotive engine control units, car electronics.
- TVs, VCRs, electronic music instruments, video games etc.

## How to Order(Product Identification)

**CFI 06 B 1H 101 M F**

1      2      3      4      5      6      7

### 1 Type

Type of EMI suppression filter

### 3 Temperature Characteristics

B(Y5P) :  $\Delta C$  : -15~15% (-55°C~125°C)

### 5 Nominal Capacitance(μF)

The first two digits indicate significant digits, the third digits indicate the number of zero following  
ex) 470 → 47 μF, 271 → 270 μF, 222 → 2200 μF

### 7 Packing Style

Code	B	F
Packing	Bulk Packing	Taping type of flat pack(Ammo-Pack)

### 2 Physical Dimensions

06 : Component

### 4 Rated Voltage

1H : 50V DC      2H : 100V DC

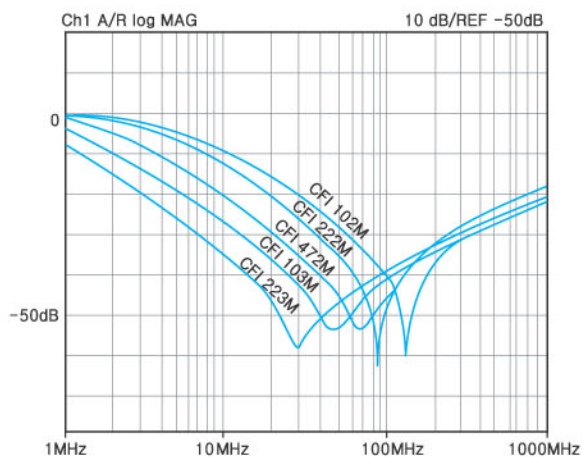
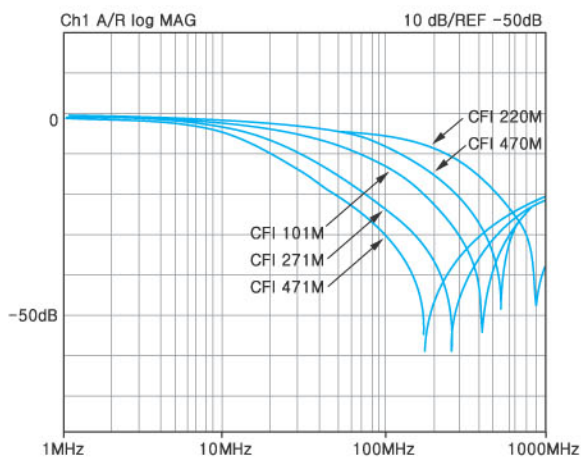
### 6 Capacitance Tolerance

Code	Tolerance
K	±10%
M	±20%
Z	-20, 80%

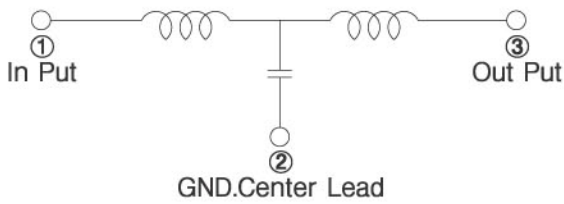
## Specifications

Part No.	Capacitance	Tolerance	Frequency Range(MHz)	
	(pF)		-15dB	-25dB
CFI 06 B 1H 220M	22±20%	K, M	500~800	700~800
CFI 06 B 1H 330M	33±20%		400~800	650~800
CFI 06 B 1H 470M	47±20%		350~800	550~700
CFI 06 B 1H 680M	68±20%		250~800	450~600
CFI 06 B 1H 101M	100±20%		200~800	350~500
CFI 06 B 1H 151M	150±20%		150~800	300~400
CFI 06 B 1H 221M	220±20%		100~800	200~350
CFI 06 B 1H 271M	270±20%		80~800	200~300
CFI 06 B 1H 331M	330±20%		70~800	150~300
CFI 06 B 1H 471M	470±20%		50~800	120~300
CFI 06 B 1H 681M	680±20%		40~800	90~300
CFI 06 B 1H 102M	1000±20%	M	30~800	70~200
CFI 06 B 1H 152M	1500±20%		25~800	60~200
CFI 06 B 1H 222M	2200±20%		20~800	45~200
CFI 06 B 1H 332M	3300±20%		15~800	35~200
CFI 06 B 1H 472M	4700±20%		10~800	25~200
CFI 06 B 1H 682M	6800±20%		8~800	20~200
CFI 06 B 1H 103M	10000±20%		6~800	15~200
CFI 06 B 1H 153M	15000±20%		5~800	10~200
CFI 06 B 1H 223M	22000±20%	M, Z	4~800	9~200
CFI 06 B 1H 333M	33000±20%		3~800	7~200
CFI 06 B 1H 473M	47000±20%		2~800	3~200
CFI 06 B 1H 104M	100000±20%		1~800	3~200

## Typical Insertion Loss Characteristics



## Schematic and Characteristics

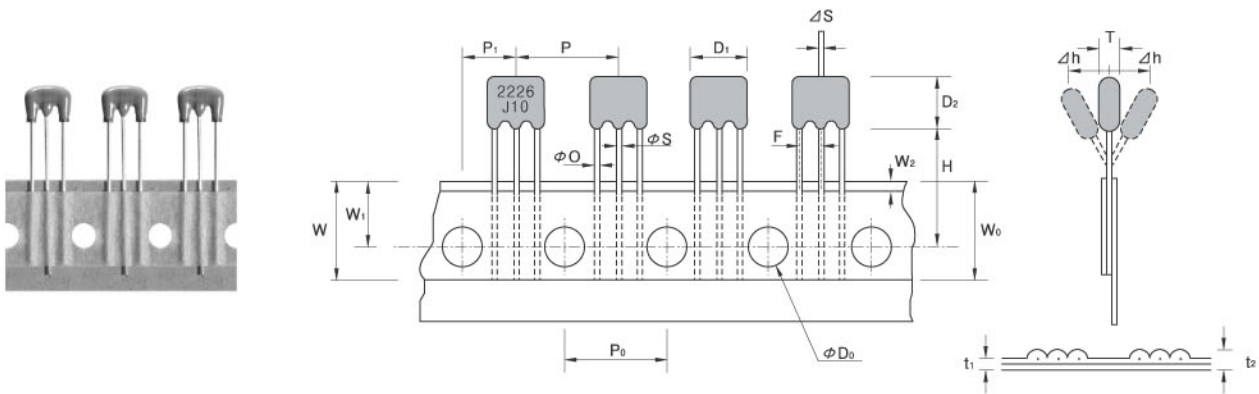


Item	Specification
Rated Voltage	50VDC
Rated current Between terminals ① and ③	1A
Withstanding test voltage between terminals ① and ② or ② and ③	125V DC
Insulation resistance at 50V DC for 1 minute	10,000M $\Omega$ Min.
DC resistance between terminals ① and ③	50m $\Omega$ Max.
Operating temperature range	-25 $^{\circ}$ C ~ 85 $^{\circ}$ C

## Electrical Characteristics

Item	Specification	Item	Specification
Operating Temperature	B : -55 $^{\circ}$ C ~ +125 $^{\circ}$ C	Temperature characteristic	B : $\pm$ 15%
Rated voltage	50V/100V DC	Testing voltage	125V/250V DC
Insulation resistance	10,000M $\Omega$ Min.	Tan $\delta$	B : 3.0% Max.
Rated current	1A Max.	DC Resistance	50m $\Omega$ Max.

## Shape & Dimensions



Item	Code	Dimensions(mm)	Item	Code	Dimensions(mm)
Component Width	D <sub>1</sub>	8.0 Max.	Carrier Type Width	W	18.0 $\pm$ 0.5
Component Height	D <sub>2</sub>	6.2 Max.	Hole Down Type Width	W <sub>0</sub>	5.0 Min.
Component Thickness	T	2.8 Max.	Position of Sprocket Hole	W <sub>1</sub>	9.0 $\pm$ 0.5
Pitch of Component	P	12.7 $\pm$ 1.0	Hole Down Type Position	W <sub>2</sub>	1.5 $\pm$ 1.5
Pitch of Sprocket Hole	P <sub>0</sub>	12.7 $\pm$ 0.3	Height of Component from Hole Center	H	19.0 $\pm$ 1.0
Length from Hole Center to Component Center	P <sub>1</sub>	6.35 $\pm$ 1.3	Diameter of Sprocket Hole	$\phi$ D <sub>0</sub>	4.0 $\pm$ 0.2
			Total Tape Thickness	t <sub>1</sub>	0.5 $\pm$ 0.2
Lead Spacing	F	2.5 -0.1, +0.4	Total Thickness, Tape and Lead wire	t <sub>2</sub>	1.5 Max.
Deviation along Tape, Left of Right	$\Delta$ S	1.0 Max.	Lead Diameter	$\phi$ O	0.6 $\pm$ 0.05
Deviation across Type	$\Delta$ h	2.0 Max.		$\phi$ S	0.5 $\pm$ 0.05