

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 Type

Type of EMI suppression filter

3 Temperature Characteristics

B(Y5P) : ΔC : -15~15% (-55°C~125°C)

5 Nominal Capacitance(pF)

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

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

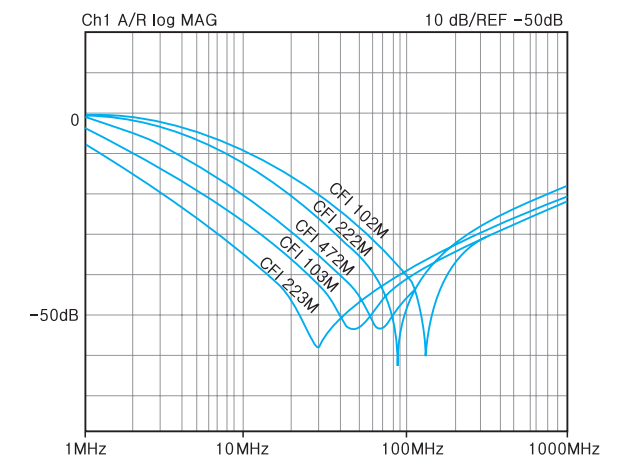
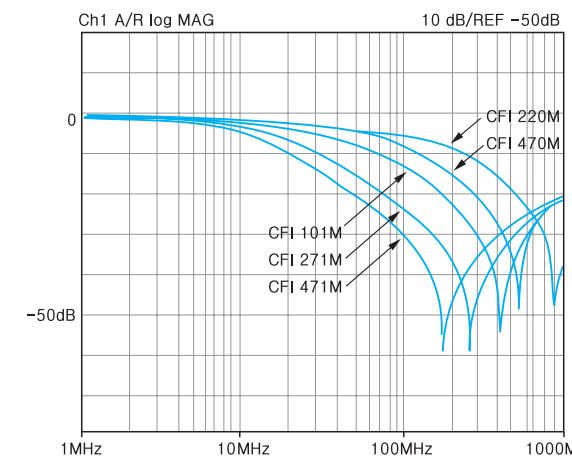
6 Capacitance Tolerance

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

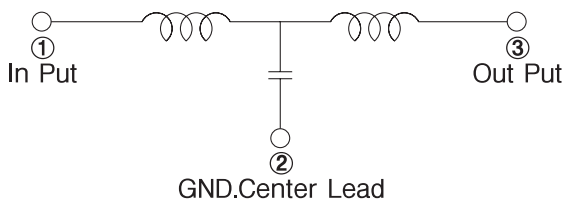
Specifications

Part No.	Capacitance (pF)	Tolerance	Frequency Range(MHz)	
			-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%		4~800	9~200
CFI 06 B 1H 333M	33000 ± 20%		3~800	7~200
CFI 06 B 1H 473M	47000 ± 20%	M, Z	2~800	3~200
CFI 06 B 1H 104M	100000 ± 20%		1~800	3~200

Typical Insertion Loss Characteristics



Schematic and Characteristics

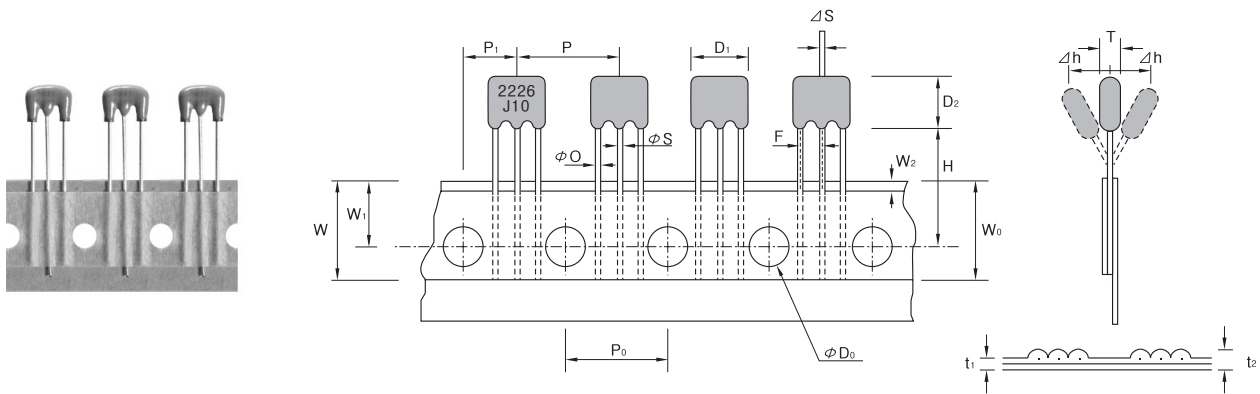


Item	Specification
Rated Voltage	50VDC
Rated current Between terminals ① and ③	1A
Withstanding test voltage between terminals ① and ② or ② and ③	125V DC
Insulation resistance at 50V DC for 1 minute	10,000M Ω Min.
DC resistance between terminals ① and ③	50m Ω Max.
Operating temperature range	-25 $^{\circ}$ 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 Ω Min.	Tan δ	B : 3.0% Max.
Rated current	1A Max.	DC Resistance	50m Ω Max.

Shape & Dimensions



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