RIQIANG 上海日亨强电子有限公司

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

2 Physical Dimensions
06 : Component

3 Temperature Characteristics
B(Y5P) : ⊿C :−15~15%(−55℃~125℃)

4 Rated Valtage
1H : 50V DC 2H : 100V DC

5 Norminal Capacitance(pF)
The first two digits indicate significants digits, the third digits indicate the number of zero following
ex) 470 → 47pF, 271 → 270pF, 222 → 2200pF

6 Capacitance Tolerance

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

7 Packing Style

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

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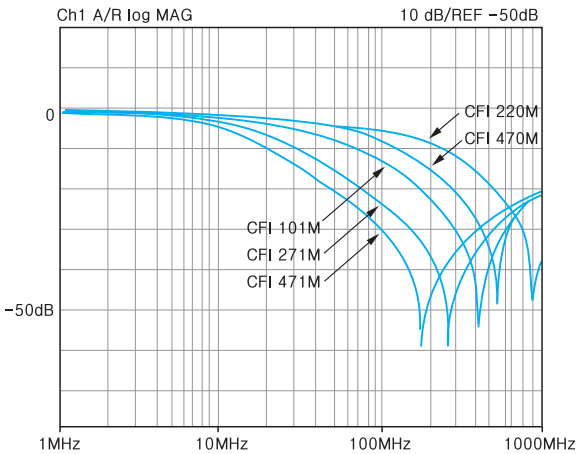
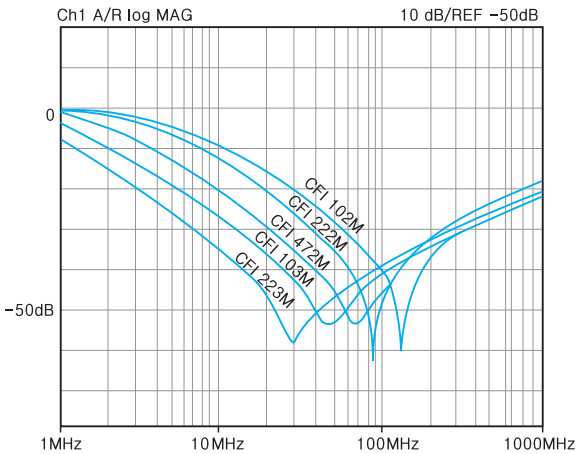
Specifications

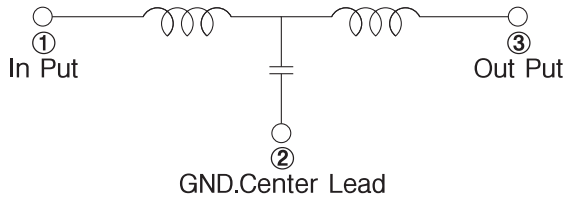
Part No.	Capacitance (pF)	Tolerance	Frequency Range(MHz) -15dB	Frequency Range(MHz) -25dB
CFI 06 B 1H 220M	22±20%	K, M	500~800	700~800
CFI 06 B 1H 330M	33±20%		400~800	650~800
CFI 06 B 1H 470M	47±20%		350~800	550~700
CFI 06 B 1H 680M	68±20%		250~800	450~600
CFI 06 B 1H 101M	100±20%		200~800	350~500
CFI 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

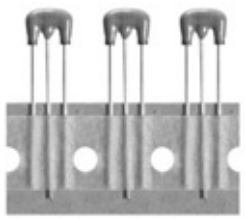


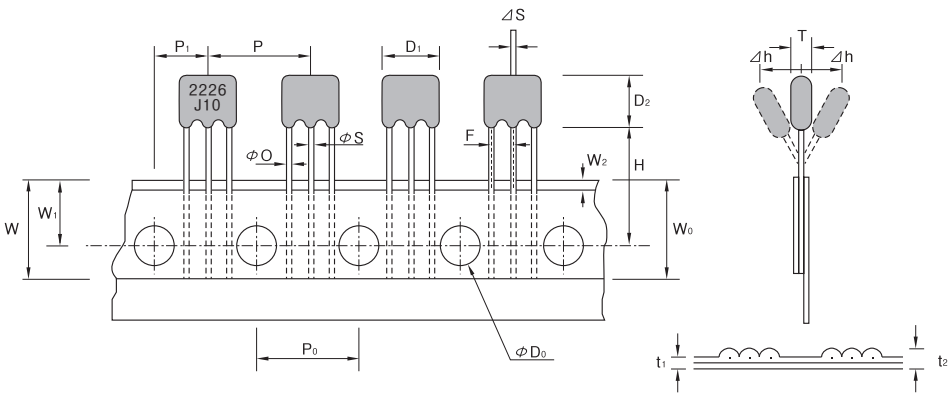
Item	Specification
Rated Voltage	50VDC
Rated current Between terminals ① and ③	1A
Withstanding test voltage between terminals ① and ② or ② and ③	125V DC
Insulation resistance at 50V DC for 1 minute	10,000MΩ Min.
DC resistance between terminals ① and ③	50mΩ Max.
Operating temperature range	−25℃ ~ 85℃

Electrical Characteristics

Item	Specification	Item	Specification
Operating Temperature	B : −55℃~+125℃	Temperature characteristic	B : ±15%
Rated voltage	50V/100V DC	Testing voltage	125V/250V DC
Insulation resistance	10,000MΩ Min.	Tanδ	B : 3.0% Max.
Rated current	1A Max.	DC Resistance	50mΩ Max.

Shape & Dimensions





Item	Code	Dimensions(㎜)	Item	Code	Dimensions(㎜)
Component Width	D_1	8.0 Max.	Carrier Type Width	W	18.0±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±0.5
Pitch of Component	P	12.7±1.0	Hole Down Type Position	W_2	1.5±1.5
Pitch of Sprocket Hole	P_0	12.7±0.3	Height of Component from Hole Center	H	19.0±1.0
Length from Hole Center to Component Center	P_1	6.35 ±1.3	Diameter of Sprocket Hole	ØD₀	4.0±0.2
			Total Tape Thickness	t_1	0.5±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	ΔS	1.0 Max.	Lead Diameter	ØO	0.6±0.05
Deviation across Type	Δh	2.0 Max.		ØS	0.5±0.05