

CHIP TYPE EMI FILTERS [CNF41 · CNH41 Series]

The CNF41 · CNH41 series is a 3-terminal EMI filter for SMT based on multilayer chip capacitor technology. This CNH series is for reducing EMI noise on DC power lines.

■Features

- Due to its small size and low residual inductance, it performs noise reduction at higher frequencies than conventional capacitors.
- High current rating (~2A) makes it well suited for reducing EMI noise on DC power lines.
- High capacitance (~0.22μF) enables reduction of noise over a wide frequency range.
- Nickel and tin plated barrier terminations offer good solderability and resistance to soldering heat.
- RoHS Compliant.

■Applications

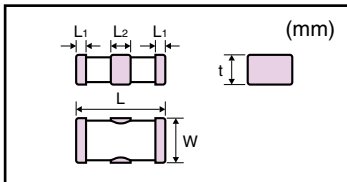
Noise reduction for signal lines and DC lines in computers, computer peripheral equipment, digital TV, DVD recorder, cellular telephone, automotive electronics, printer, FAX, etc.



■Part Number System

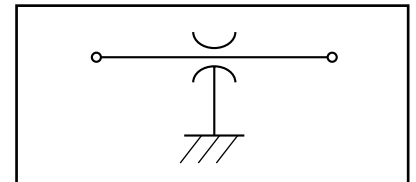
CNF	41	R	102	S	-	T	M
Series	Style 41 : 4.5×1.6 (L) (W)	Temperature characteristics C : ±30ppm/°C R : ±15% F : ±30,-80%	Capacitance	Capacitance tolerance S : +50,-20% Z : +80,-20%		Packing form T : Taping B : Bulk	Termination M : Ni-Barrier termination

■Dimensions



Type	L	W	t	L1	L2
CNF41 CNH41	4.5±0.3	1.6±0.3	1.0±0.3	0.5±0.3	1.4±0.3

■Equivalent circuit



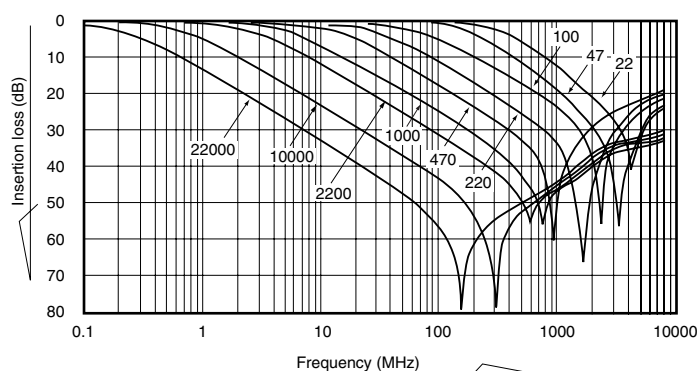
■Part Number List • Specifications

Part number	Capacitance	Capacitance tolerance	Rated voltage	Rated current	IR	DC resistance	Temp. range
CNF41C220S-□M	22pF	+50, -20%	100V DC	0.3A DC	10,000MΩmin.	0.3 Ωmax.	-55~+125°C
CNF41C470S-□M	47pF						
CNF41C101S-□M	100pF						
CNF41C221S-□M	220pF						
CNF41C471S-□M	470pF						
CNF41R102S-□M	1,000pF						
CNF41R222S-□M	2,200pF						
CNF41R103S-□M	10,000pF						
CNF41R223S-□M	22,000pF	+80, -20%	50V DC	2 A DC	1,000MΩmin.	0.04Ωmax.	-25~+ 85°C
CNH41F224Z-□M	220,000pF						

□ : "T" stands for taping package and "B" stands for bulk package.

■Insertion loss (Reference)

CNF41 TYPE



CNH41F224Z

