# 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

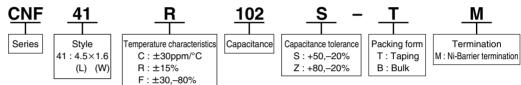
- Due to its small size and low residual inductance, it performs noise reduction at higher frequencies than conventional capacitors.
- High current rating (~2A) makes it well suited for reducing EMI noise on DC power lines.
- High capacitance (~0.22μF) enables reduction of noise over a wide frequency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

## Applications

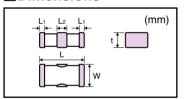
Noise reduction for signal lines and DC lines in computers, computer peripheral equipment, digital TV, DVD recorder, cellular telephone, automotive electronics, printer, FAX, etc.



# **■**Part Number System

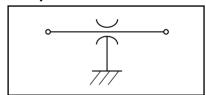


#### **■**Dimensions



Туре	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						
CNF41C470S-□M	47pF						
CNF41C101S- M	100pF						
CNF41C221S-□M	220pF						
CNF41C471S-□M	470pF	+50, –20%	100V DC	0.3A DC	10,000M $\Omega$ min.	0.3 Ωmax.	–55∼+125°C
CNF41R102S-UM	1,000pF						
CNF41R222S-□M	2,200pF						
CNF41R103S-□M	10,000pF						
CNF41R223S-□M	22,000pF						
CNH41F224Z- M	220,000pF	+80, -20%	50V DC	2 A DC	1,000M $\Omega$ min.	0.04Ωmax.	−25~+ 85°C

 $<sup>\</sup>hfill \square$  : "T" stands for taping package and "B" stands for bulk package.

# **■**Insertion loss (Reference)

#### CNH41F224Z **CNF41 TYPF** 10 10 Insertion loss (dB) (g 20 20 loss 30 30 nsertion 40 40 50 50 60 60 70 70 80 1000 10000 0.01 0.1 100 10000 Frequency (MHz) Frequency (MHz)