

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

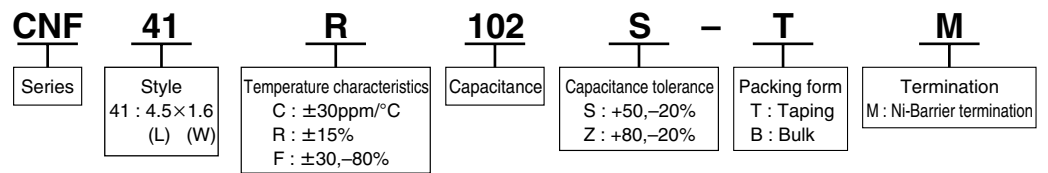
- Due to its small size and low residual inductance, it performs noise reduction at higher frequencies than conventional capacitors.
- High current rating (~2A) makes it well suited for reducing EMI noise on DC power lines.
- High capacitance (~0.22μF) enables reduction of noise over a wide frequency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

■ Applications

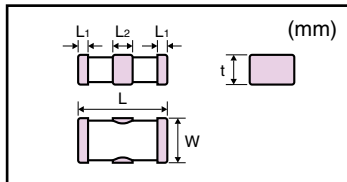
Noise reduction for signal lines and DC lines in computers, computer peripheral equipment, digital TV, DVD recorder, cellular telephone, automotive electronics, printer, FAX, etc.



■ Part Number System

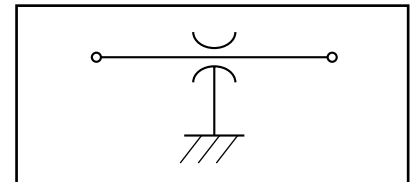


■ Dimensions



| 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



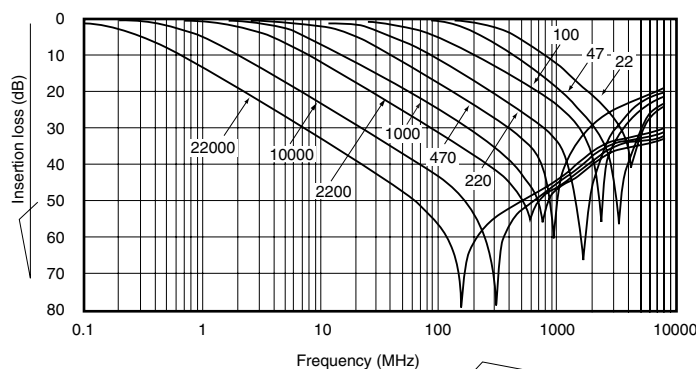
■ Part Number List • Specifications

| 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 | | | | | | |
| CNH41F224Z-□M | 220,000pF | +80, -20% | 50V DC | 2 A DC | 1,000MΩmin. | 0.04Ωmax. | -25~+ 85°C |

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

■ Insertion loss (Reference)

CNF41 TYPE



CNH41F224Z

