# CHIP TYPE EMI FILTERS [ CNF3I · CNH3I · CNH3O · CNH32 Series ]

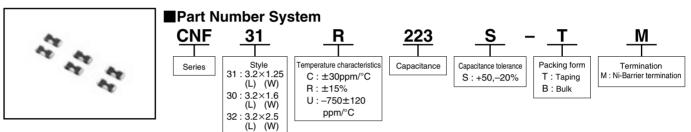
The CNF31 · CNH31 · CNH30 · CNH32 series is a 3-terminal EMI filter for SMT based on multilayer chip capacitor technology. The CNH series is suited for reducing EMI noise on DC power lines.

# Features

- Due to its small size and low residual inductance, noise reduction is possible at higher frequencies than conventional capacitors.
- High current rating (~2A), makes it well suited for reducing EMI noise on DC power lines.
- High capacitance (0.1 $\mu$ F max.) 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.

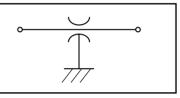


#### Dimensions

	(mm)
	t↓
w	

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	CNF31 CNH31		1.25±0.2	0.7±0.2	0.4±0.3	1.1±0.3
	CNH30	3.2±0.2	1.6±0.2	1.3±0.2	$0.4 \pm 0.2$	1.1±0.2
	CNH32		2.5±0.2			





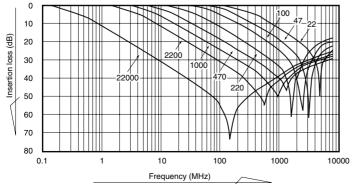
## Part Number List • Specifications

Part number	Capacitance	Capacitance tolerance	Rated voltage	Rated current	IR	DC resistance	Temp. range	
CNF31C220SM	22pF	+50, -20%	50V DC	0.3A DC	10,000MΩmin.	0.3 Ωmax.	–55~+125°C	
CNF31C470SM	47pF							
CNF31C101S-	100pF							
CNF31C221S-M	220pF							
CNF31R471S-M	470pF							
CNF31R102SM	1,000pF							
CNF31R222SM	2,200pF							
CNF31R223SM	22,000pF							
CNH31U332SM	3,300pF		25V DC	2 A DC	1,000MΩmin.	0.05Ωmax.		
CNH31R223SM	22,000pF		50V DC		10,000M $\Omega$ min.	0.08Ωmax.		
CNH31R473SM	47,000pF			001 00	1 A DC	5,000MΩmin.	0.001211187.	
CNH30R104SM	100,000pF		25V DC	2 A DC	1,000M $\Omega$ min.	$0.07\Omega$ max.		
CNH30R106M-M	10 µ F	±20%	16V DC	6 A DC	50M $\Omega$ min.	10mΩmax.	–55∼+85°C	
CNH32R106M-M	10 µ F		25V DC		50M $\Omega$ min.			
CNH30R226M-M	22 µ F		6.3V DC		25MΩmin.			
CNH32R476M–M	47 µ F		4.0V DC		10M $\Omega$ min.	$5m\Omega$ max.		

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

## ■Insertion loss (Reference)





CNH31 ,CNH30 ,CNH32 TYPE

