

## CHIP TYPE EMI FILTERS [ CNX41 · CNG41 Series ]

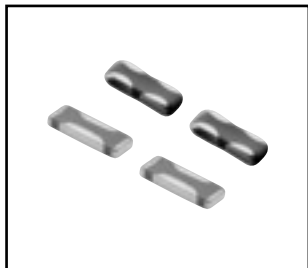
The CNX41 · CNG41 series is a 3-terminal SMT EMI filter based on multilayer chip capacitor technology.

### ■ Features

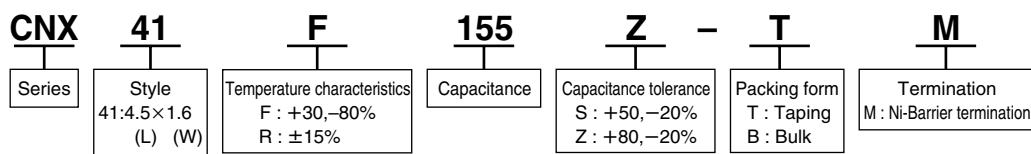
- Due to its small size and low residual inductance, it performs noise reduction at higher frequencies than conventional capacitors.
- The CNX · CNG series high current rating (~6A) makes it well suited for reducing EMI noise on DC power lines.
- The CNX series high capacitance (~1.5 $\mu$ F) enables reduction of noise over a wide frequency range.
- High current priority and high frequency characteristic priority can be used properly in the CNG series.
- Nickel and tin plated barrier terminations offer good solderability and resistance to soldering heat.
- RoHS Compliant.

### ■ Applications

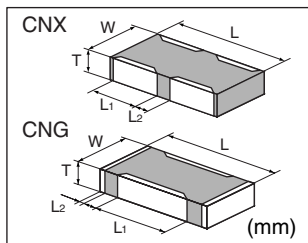
Noise control for · the digital video signal lines in TV,VTR,DVD · computers and computer peripheral equipment · automotive electronics · DC lines in printer ,FAX,etc.



### ■ Part Number System

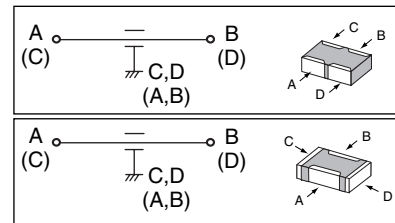


### ■ Dimensions



Type	L	W	t	L1	L2
<b>CNX41</b>	4.5±0.15	1.6±0.15	1.0±0.15	2.0 +0.1 -0.2	0.4 +0.2 -0.1
<b>CNG41</b>	4.5±0.3	1.6±0.3	1.0±0.3	2.8±0.2	0.3±0.2

### ■ Equivalent circuit



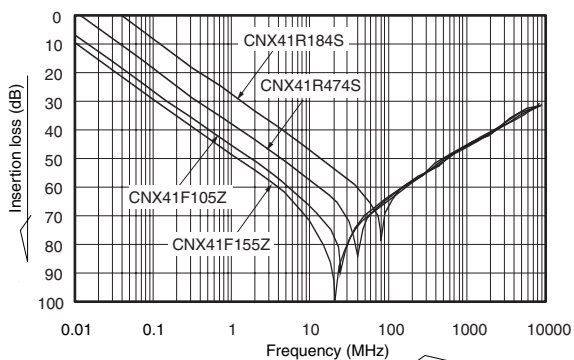
### ■ Part Number List • Specifications

Part number	Capacitance	Capacitance tolerance	Rated voltage	Rated current	IR	DC resistance	Temp. range
<b>CNX41R184S</b> □M	0.18 $\mu$ F	+50,-20%	50V DC	3A DC	1,000M $\Omega$ min.	0.04 $\Omega$ max.	-55~+125°C
<b>CNX41R474S</b> □M	0.47 $\mu$ F	+50,-20%	25V DC	4A DC	500M $\Omega$ min.	0.025 $\Omega$ max.	-25~+ 85°C
<b>CNX41F105Z</b> □M	1.0 $\mu$ F	+80,-20%	50V DC	6A DC			
<b>CNX41F155Z</b> □M	1.5 $\mu$ F		25V DC	2A DC			
<b>CNG41R184S</b> □M	0.18 $\mu$ F	+50,-20%	50V DC	6A DC(A-B) 2A DC(C-D)	1,000M $\Omega$ min.	0.01 $\Omega$ max.	-55~+125°C

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

### ■ Insertion loss (Reference)

#### CNX41 TYPE



#### CNG41 TYPE

