

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 μ 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

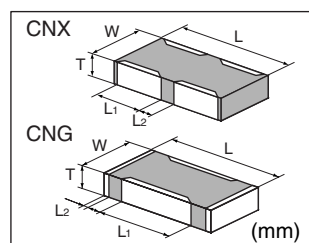
Noise control for · the digital video signal lines in TV,VTR,DVD · computers and computer peripheral equipment · automotive electronics · DC lines in printer ,FAX,etc.



■ Part Number System

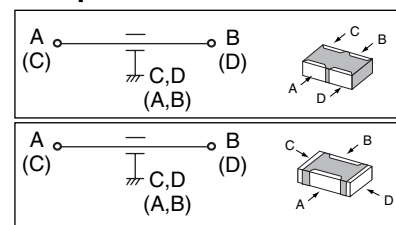
CNX	41	F	155	Z	-	T	M
Series	Style 41:4.5×1.6 (L) (W)	Temperature characteristics F : +30,-80% R : ±15%	Capacitance	Capacitance tolerance S : +50,-20% Z : +80,-20%		Packing form T : Taping B : Bulk	Termination M : Ni-Barrier termination

■ Dimensions



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

■ Equivalent circuit



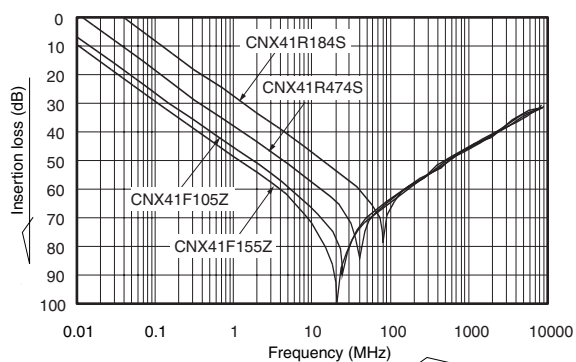
■ Part Number List • Specifications

Part number	Capacitance	Capacitance tolerance	Rated voltage	Rated current	IR	DC resistance	Temp. range
CNX41R184S-□M	0.18 μ F	+50,-20%	50V DC	3A DC	1,000M Ω min.	0.04 Ω max.	-55~+125°C
CNX41R474S-□M	0.47 μ F		25V DC	4A DC		0.025 Ω max.	
CNX41F105Z-□M	1.0 μ F	+80,-20%	50V DC	6A DC	500M Ω min.	0.015 Ω max.	-25~+ 85°C
CNX41F155Z-□M	1.5 μ F		25V DC				
CNG41R184S-□M	0.18 μ F	+50,-20%	50V DC	6A DC(A-B) 2A DC(C-D)	1,000M Ω min.	0.01 Ω max.	-55~+125°C

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

■ Insertion loss (Reference)

CNX41 TYPE



CNG41 TYPE

