2 mode Noise Filters

Type: EXC24CB/CP EXC24CN

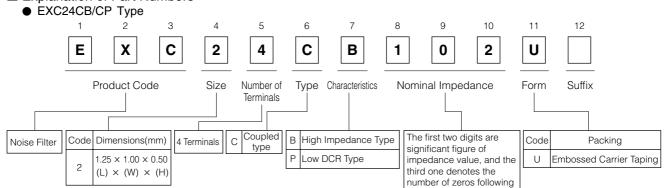
Features

- Burst/radiation noise filtering for audio circuits
- The optimally magnetic-coupled ferrite beads allow for the filtering of both common and normal mode noises
- The strong multi-layer structure provides high resistance to reflow soldering heat and a high mounting reliability
- Magnetic shield type
- High Impedance : 220 to 1 k Ω (EXC24CB type)
- ullet Low Resistance Value : 0.4 Ω max. (EXC24CP type)
- lacktriangle High Impedance : 600 Ω ,
 - Low Resistance Value : 0.9 Ω max. (EXC24CN type)
- RoHS compliant

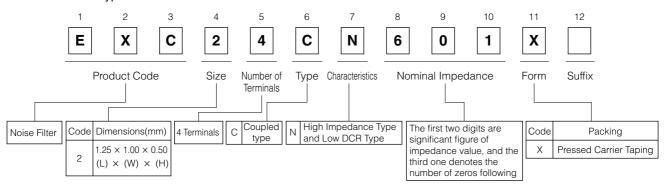
■ Recommended Applications

- Receiver lines, speaker lines, microphone lines and headset of mobile phones.
- Audio signal lines of Portable audio equipment, PCs, PDAs.

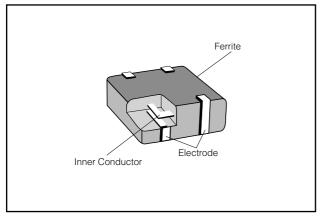
■ Explanation of Part Numbers



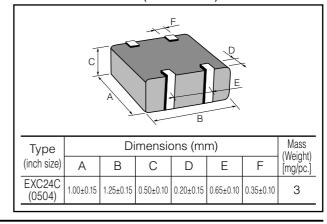
EXC24CN Type



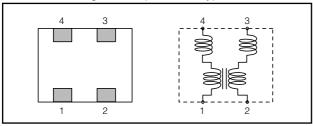
■ Construction



■ Dimensions in mm (not to scale)



■ Circuit Configuration (No Polarity)



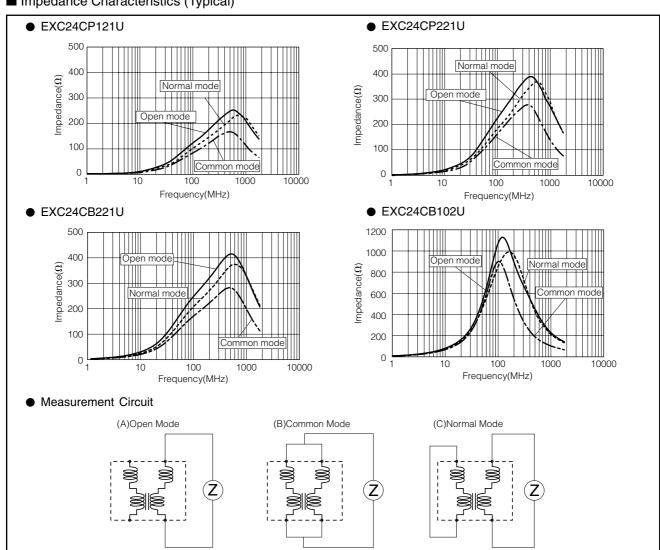
■ Ratings

Part Number	Impedance (Open mode)		Rated Voltage	Rated Current	DC Resistance	
T art Number	(Ω) at 100 MHz	Tolerance(%)	(V DC)	(mA DC)	(Ω) max.	
EXC24CP121U	120			500	0.3	
EXC24CP221U	220	±25	5	350	0.4	
EXC24CB221U	220	±25	5	100	0.7	
EXC24CB102U	1000			50	1.5	

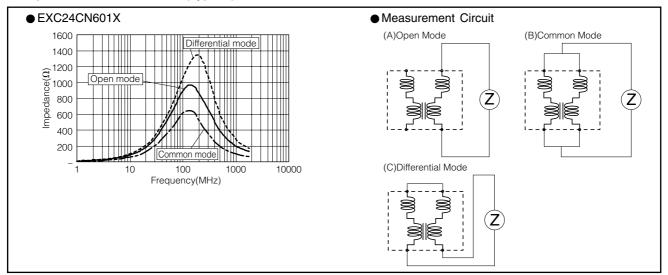
Part Number	Impedance (Common mode)		Rated Voltage	Rated Current	DC Resistance	
rait Nullibel	(Ω) at 100 MHz	Tolerance(%)	(V DC)	(mA DC)	(Ω) max.	
EXC24CN601X	600	±25	5	200	0.9	

◆ Category Temperature Range –40 °C to +85 °C

■ Impedance Characteristics (Typical)



■ Impedance Characteristics (Typical)

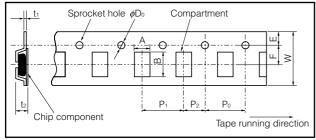


■ Packaging Methods (Taping)

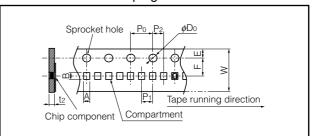
Standard Quantity

品 番	Kind of Taping	Pitch (P₁)	Quantity
EXC14CP□□□U	C14CP□□□U 2 mm		10000 pcs./reel
EXC24CP/CB□□□U	Embossed Carrier Taping	4 mm	5000 pcs./reel
EXC24CN□□□X	Pressed Carrier Taping	2 mm	10000 pcs./reel

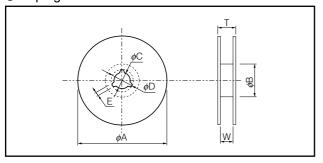
Embossed Carrier Taping



Pressed Carrier Taping



Taping Reel



Embossed Carrier Dimensions (mm)

_	Part Number	А	В	W	F	E	P ₁	P ₂	P ₀	ϕD_0	t ₁	t ₂
	EXC14CP	0.75±0.10	0.95±0.10	8.0±0.2	3.50±0.05	1.75±0.10	2.0±0.1	2.0±0.1	4.0±0.1	1.5 +0.1	0.25±0.05	0.85±0.15
_	EXC24CP/CB	1.20±0.15	1.45±0.15	8.0±0.2	3.5±0.1	1.75±0.10	4.0±0.1	2.0±0.1	4.0±0.1	1.5 + 0.1	0.25±0.05	0.90±0.15

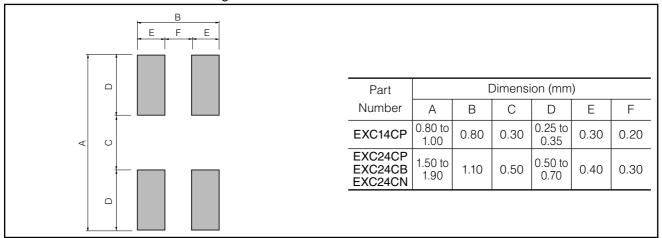
Pressed Carrier Dimensions (mm)

Part Number	А	В	W	F	Е	P_1	P ₂	P ₀	ϕD_0	t ₂
EXC24CN	1.14±0.10	1.38±0.15	8.0±0.2	3.5±0.1	1.75±0.10	2.0±0.1	2.0±0.1	4.0±0.1	1.5+0.1	0.68±0.10

Standard Reel Dimensions (mm)

Part Number	ϕ A	ϕ B	φC	ϕD	E	W	Т
EXC14C/EXC24C	180.0±3.0	60.0±1.0	13.0±0.5	21.0±0.8	2.0±0.5	9.0±0.3	11.4±1.5

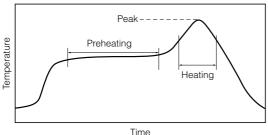
■ Recommended Land Pattern Design



■ Recommended Soldering Conditions

Recommendations and precautions are described below.

- Recommended soldering conditions for reflow
- Reflow soldering shall be performed a maximum of two times.
- · Please contact us for additional information when used in conditions other than those specified.
- Please measure the temperature of the terminals and study every kind of solder and printed circuit board for solderability before actual use.



For soldering (Example: Sn-37Pb)

	Temperature	Time
Preheating	140 °C to 160 °C	60 s to 120 s
Main heating	Above 200 °C	30 s to 40 s
Peak	235 ± 10 °C	max. 10 s

For lead-free soldering (Example : Sn/3Ag/0.5Cu)

	Temperature	Time		
Preheating	150 °C to 170 °C	60 s to 120 s		
Main heating	Above 230 °C	30 s to 40 s		
Peak	max. 260 °C	max. 10 s		

- Flow soldering
- · We do not recommend flow soldering, because flow soldering may cause bridges between the electrodes.

<Repair with hand soldering>

- Preheat with a blast of hot air or similar method. Use a soldering iron with a tip temperature of 350 °C or less. Solder each electrode for 3 seconds or less.
- Never touch this product with the tip of a soldering iron.

The following are precautions for individual products. Please also refer to the common precautions for Noise Suppression Device shown on this catalog.

- 1. Use rosin-based flux or halogen-free flux.
- 2. For cleaning, use an alcohol-based cleaning agent. Before using any other type, consult with our sales person in advance.
- 3. Do not apply shock to 2 mode Noise Filters (hereafter called the filters) or pinch them with a hard tool (e.g. pliers and tweezers). Otherwise, their bodies may be chipped, affecting their performance. Excessive mechanical stress may damage the filters. Handle with care.
- 4. Store the filters in a location with a temperature ranging from -5 °C to +40 °C and a relative humidity of 40 % to 60 %, where there are no rapid changes in temperature or humidity.
- 5. Use the filters within half a year after the date of the outgoing inspection indicated on the packages.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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