

ETCLC Series

SMD Common Mode Data Line Filters

TRIGON
COMPONENTS



FEATURES

- 2-line type.
- Small Size, Surface Mount
- Highly effective in noise suppression. High common-mode impedance at signal band.
- Low Resistance
- Low Leakage Inductance
- Ferrite Core
- Tape & Reel
- RoHS Compliant.

APPLICATIONS

- Used for noise suppression in any electronic devices such as personal computer and peripheral equipment (USB), amusement equipment (IEEE1394), LCD panels (LVDS), etc.
- Mobile Device / Handheld Device / Lowprofile Device.

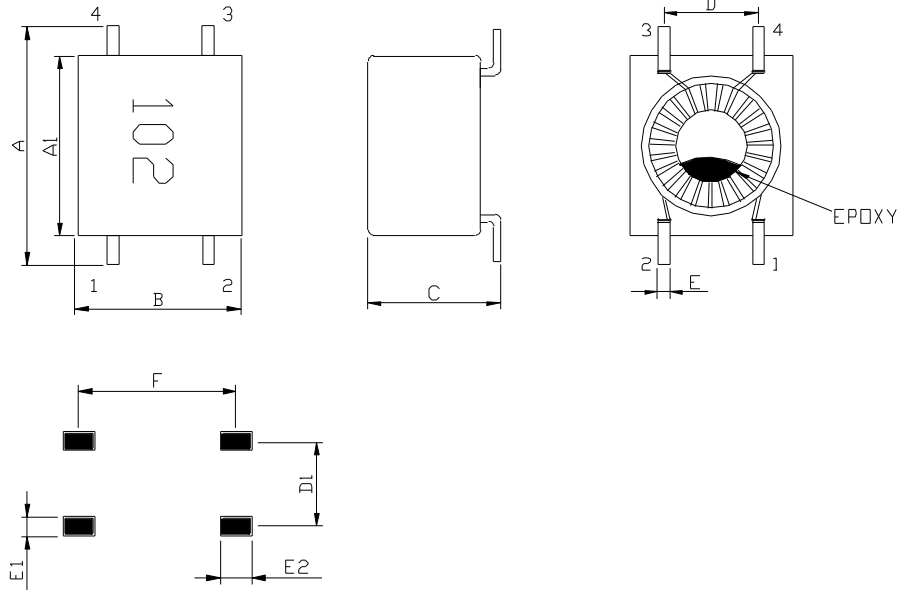
ORDERING CODE

ETCLC 0905B 471 T
(1) (2) (3) (4)

- (1) Product Series Code
 - (2) Product Size Code
 - (3) Inductance Code
 - (4) Packing Code
- T: Tape & Reel

※Please refer to complete Ordering Code document (ETCLC-Ord) for more ordering options.

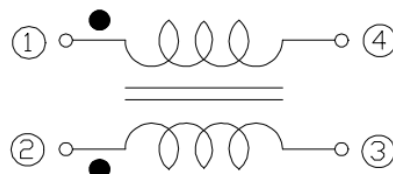
Configurations:



Dimensions (mm):

ITEM	A Max	A1 Max	B Max	C Max	D ±0.1
ETCLC0905B	9.5	7.5	6.4	5.6	2.54
	D1 Typ	E Typ	E1 Typ	E2 Typ	F Typ
	2.54	0.50	1.30	2.72	8.90

Schematic:



ETCLC Series

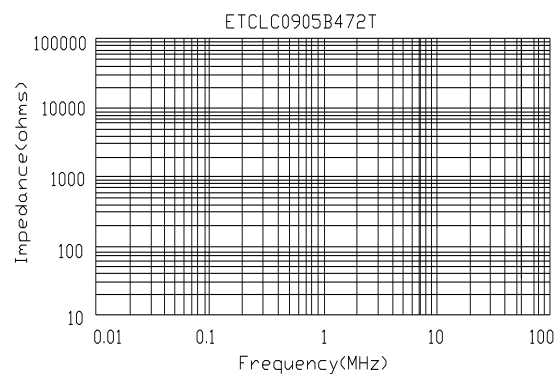
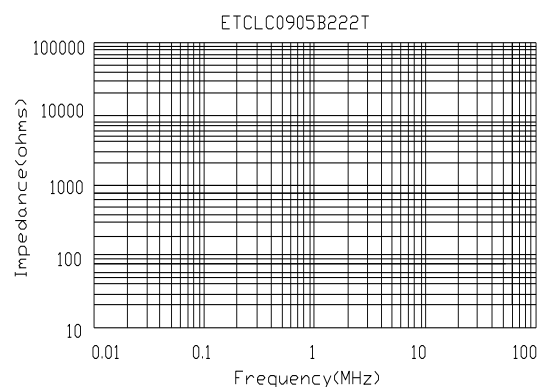
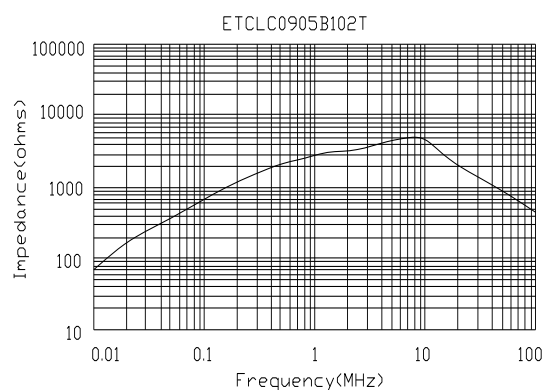
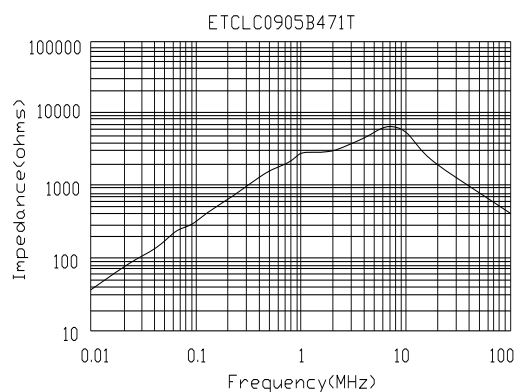
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Electrical Characteristics for ETCLC0905:

ITEM	Inductance (mH)	Inductance Frequency / Voltage	Rdc (Ω) Max.	Leakage (uH) Max	Rated Current (A)	Isolation (V)
ETCLC0905B471T	0.47 +50%/-30%	100KHz / 0.1V	0.3	0.4	0.7	500
ETCLC0905B102T	1.0 +50%/-30%	100KHz / 0.1V	0.3	0.4	0.7	500
ETCLC0905B222T	2.2 +50%/-30%	100KHz / 0.1V	0.4	0.6	0.5	500
ETCLC0905B472T	4.7 +50%/-30%	100KHz / 0.1V	0.7	0.8	0.4	500

※ Rated Current: AT=40°C Typ.



Inductor

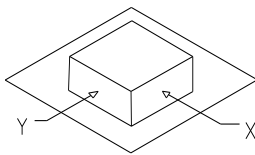
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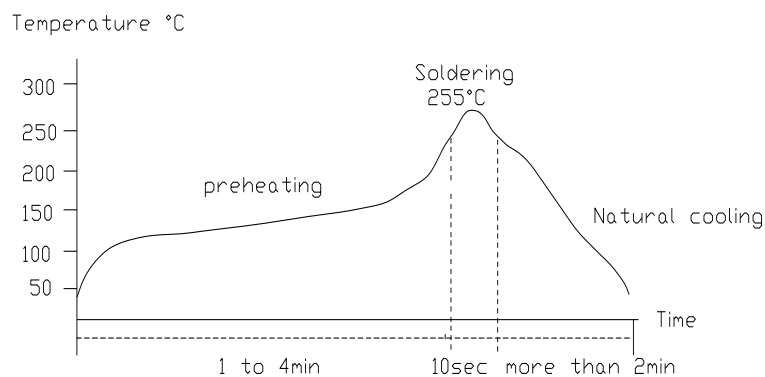
Reliability Test Result:

Operating Temperature	- 40°C to + 125°C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength	After soldering, between copper plate and terminals of coils, push in two directions of X, Y with standing 10N(1.02kg) for 10+/-2 sec Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100M OHM at 100V D.C between wire and core
Dielectric Strength	Apply, at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient (0~2000) X 10/°C (-40°C ~ +125°C)
Humidity characteristics	Inductance deviation within ±10%, after 96 hours in 90~95% relative humidity at 40±2°C and 1hours drying under normal condition



A test is made under the above-mentioned condition, and it is kept for 2 hours in the normal

IR Reflow profile



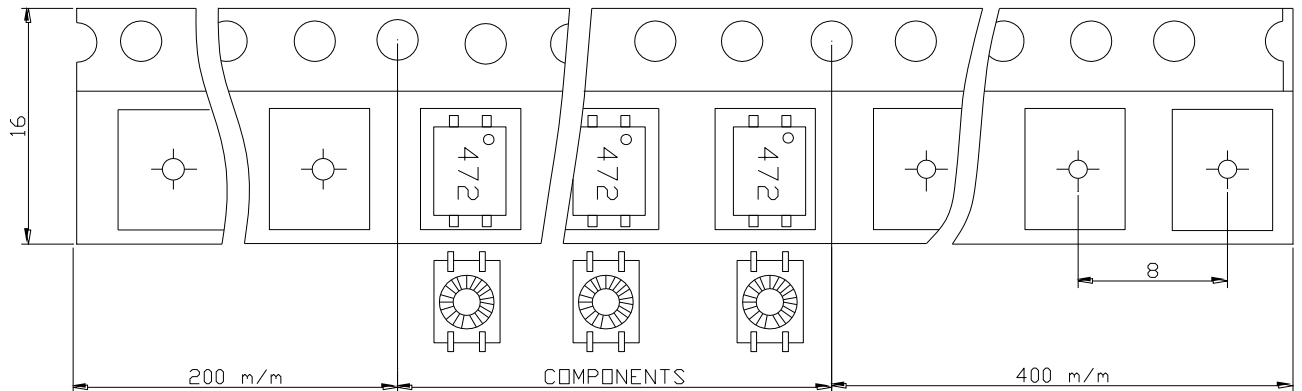
Temperature and humidity. After that, no mechanical and electrical defect should be found.

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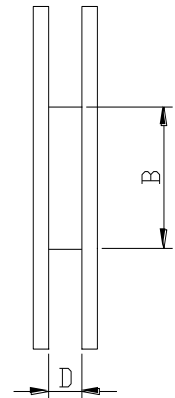
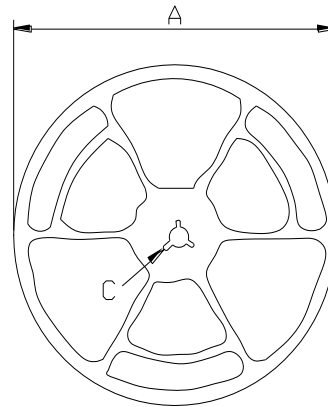
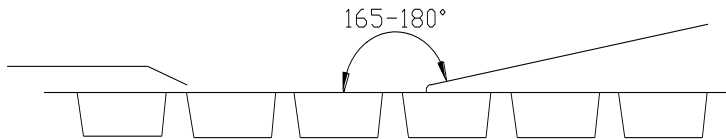
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Packing:



Transparent carrier and cover tape

Adhesive strength of cover tape is 20 to 120 gf
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel;
330	100	13	16.5	1500

Packing Quantity:

P/N	Chip/Reel	Inner Box	Carton
ETCLC0905B	1500PCS	4500PCS	22500PCS