

## ■ Application

Laptop, desktop and server applications

High current power supplies

Battery powered devices

PMIC

## ■ Features

RoHS compliant & halogen free

Low resistance and high current rating

Magnetic core made by high performance magnetic metal powder

## ■ Product Identification

①            ②            ③ ④            ⑤  
MLN - YT12 N 100 □ - C1

① Product Code

② Dimensions

③ Inductance: 100 = 10  $\mu$ H

④ Inductance Tolerance: M =  $\pm 20\%$  , N =  $\pm 30\%$

⑤ Series Type: C1 Type

Note: Please refer to the “Product Dimension” for detail dimensions.

## Electrical Performance

Part number	Inductance @0A ( $\mu$ H)	Rdc(m $\Omega$ )		Heat rating current (Idc) <sup>1</sup> DC amps (A)	Saturation current (Isat) <sup>2</sup> DC amps (A)
		Typ.	Max.		
MLN-YT12N100□-C1	10	400	460	1.6	1.6

## Note

**Test frequency:** 1MHz, 0.25V.

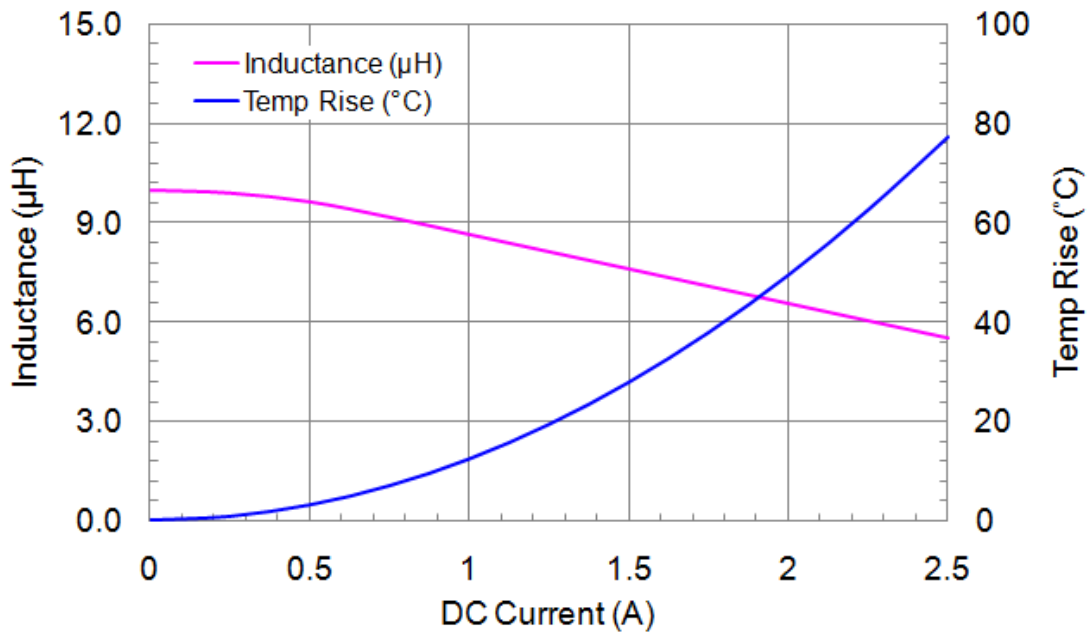
**Test instruments:** Inductance/saturation current: Keysight 4285A or equivalent.

Rdc: ADEX AX1152D or equivalent.

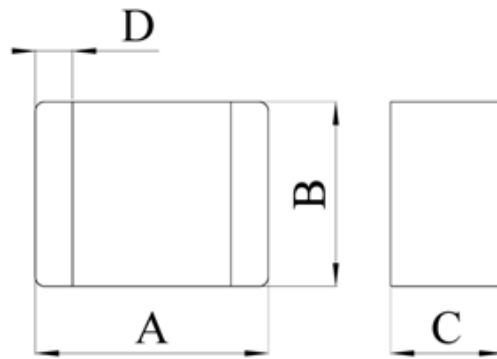
### Notes:

1. The heat rating current (Idc) will cause temperature rise approximate 40°C.
2. The saturation current (Isat) will cause initial inductance drop approximate 30%.
3. All test data is referenced at 25°C ambient.
4. Operating temperature range -40°C to +125°C.
5. Withstand voltage: 25V DC.

## Electrical Characteristics



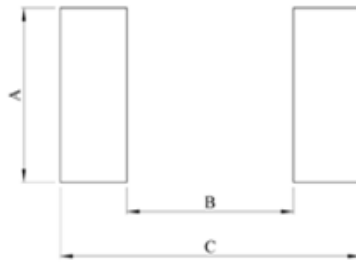
## Product Dimension



Dimension	A	B	C	D
Part number				
MLN-YT12N100□-C1	2.5 ± 0.2	2.0 ± 0.2	1.2 Max	0.6 ± 0.2

Unit: mm

## ■ Recommended PCB Layout



Type	YT12
A	2.0
B	1.2
C	2.8

Unit: mm

### Safety precaution

1. Do not make any through holes and copper pattern in the dotted line area. Except a copper pattern to the electrode.
2. Don't design/mount any components in contact with this product.

This power choke do not have any protective function in abnormal condition such as overload, short circuit, open conditions and etc, it shall be confirmed as the end product that there is no risk of smoking, fire, dielectric withstand voltage, insulation resistance etc. in abnormal conditions to provide protective devices and/or protection circuit in the end product. It is recommended the temperature rise of choke during operation is less than 50°C.

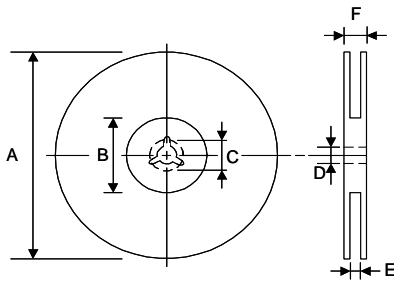
## Packaging

### Peel-off force



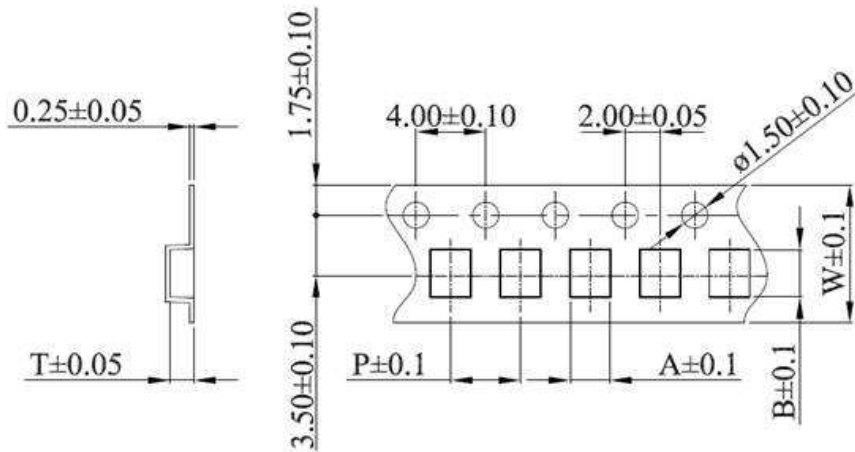
The peel off force of cover tape is 10 to 70 grams in the arrow direction.

### Dimensions



Type	A	B	C	D	E	F
8mm	178±1	60+0.5/-0	19.3±0.1	13±0.2	9±0.5	12±0.5

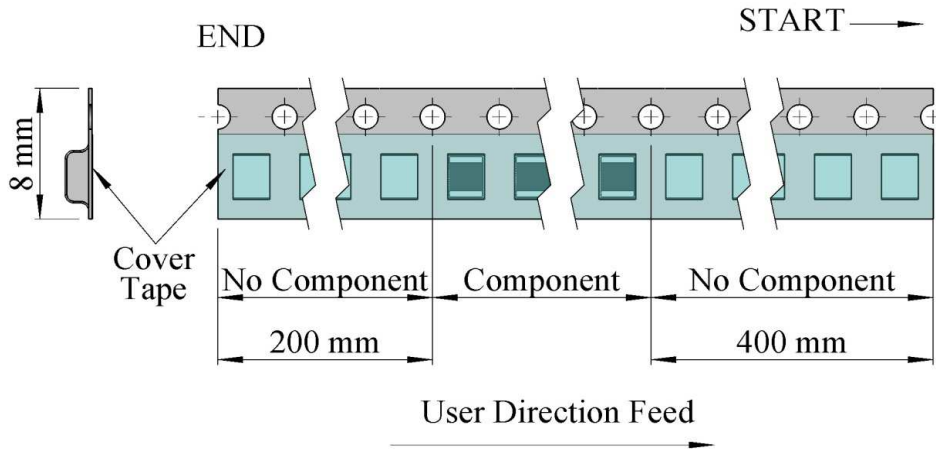
Unit: mm



TYPE	SIZE	A	B	W	P	T
MLN	YT12	2.27	2.74	8.0	4.0	1.4

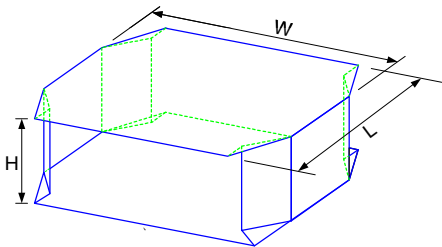
Unit: mm





**Taping quantity**

Series	YT12
PCS/Reel	3000



**Tape packing case**

Number of case	W	L	H
2	18±0.5	18±0.5	2.4±0.2
3	18±0.5	18±0.5	3.6±0.2
4	18±0.5	18±0.5	4.8±0.2
5	18±0.5	18±0.5	6.0±0.2