



# Mag Layers USA, INC

## Specification Sheet

**P/N : MND-04CZISERIES-XB-RU**

### Products:

[Molded Power Chokes](#)

[Multilayer Chip Inductors](#)

[Lan Transformer](#)

[RF Passive / Antennas](#)

[Automotive](#)

### Certifications:

[ISO9001](#)

[IATF16949](#)

[ISO14001](#)

[QC080000](#)

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### Contact Us

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## ■ 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  
MND - 04CZ | R36 M - XB-RU

① Product Code

② Dimensions

③ Inductance: R36 = 0.36  $\mu$ H

④ Inductance Tolerance: M =  $\pm$ 20%

⑤ Series Type: XB Type

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

## Electrical Performance

Part number	Inductance ±20%@0A (µH)	Rdc(mΩ)		Heat rating current (Idc) <sup>1</sup> DC amps (A)	Saturation current (Isat) <sup>2</sup> DC amps (A)
		Typ.	Max.		
MND-04CZIR36M-XB-RU	0.36	3.86	4.25	16.8	15.8
MND-04CZIR68M-XB-RU	0.68	6.39	7.03	14	12.4
MND-04CZI1R5M-XB-RU	1.5	15.1	16.6	8.8	7.4
MND-04CZI3R3M-XB-RU	3.3	26	28.6	6.6	5.9
MND-04CZI4R7M-XB-RU	4.7	40.1	44.1	5.1	4.6
MND-04CZI6R8M-XB-RU	6.8	67.4	74.1	3.9	3.6

## Note

**Test frequency:** 100KHz, 0.25V.

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

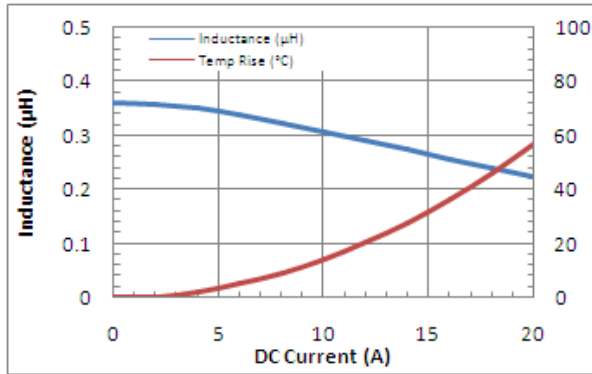
Rdc: ADEX AX1152D or equivalent.

### Notes:

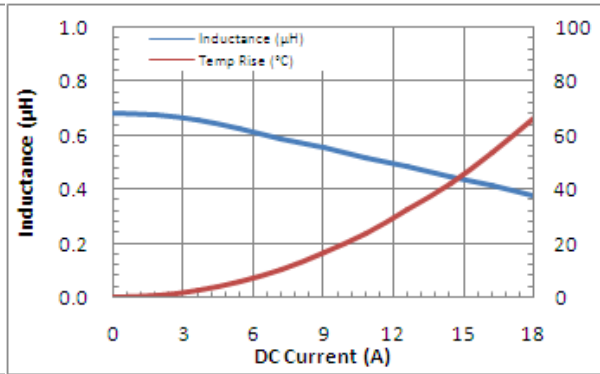
1. The heat rating current (Idc) will cause temperature rise approximate 40°C.
2. The saturation current (Isat) will cause initial inductance drop approximate 30%.
3. All test data is referenced at 25°C ambient.
4. Operating temperature range -55°C to +125°C.
5. The part temperature (ambient + temp rise) should not exceed 125°C under the worst condition.
6. The temperature of component is affected by application conditions, e.g. circuit design, copper thickness of PCB and cooling conditions, the actual component temperature should be tested in the end application.

## Electrical Characteristics

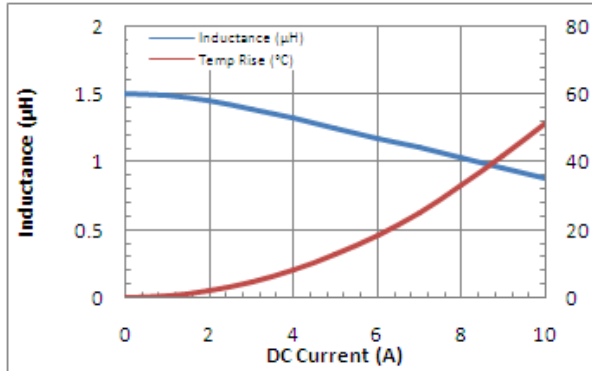
MND-04CZIR36M-XB-RU



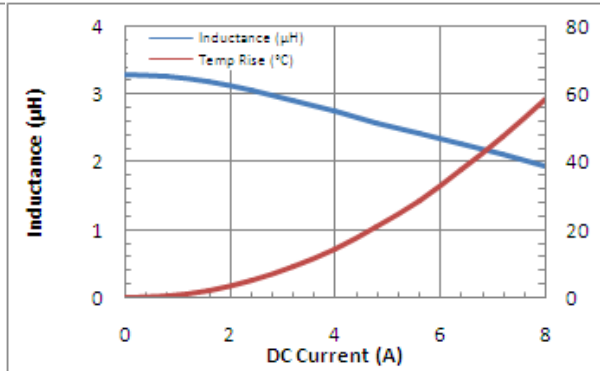
MND-04CZIR68M-XB-RU



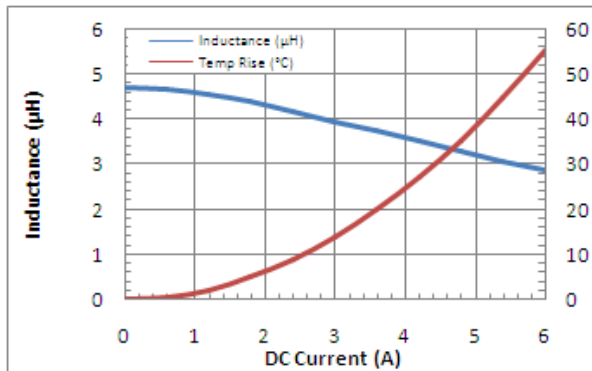
MND-04CZI1R5M-XB-RU



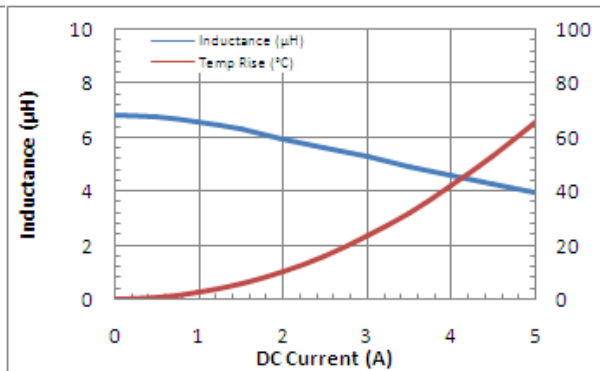
MND-04CZI3R3M-XB-RU



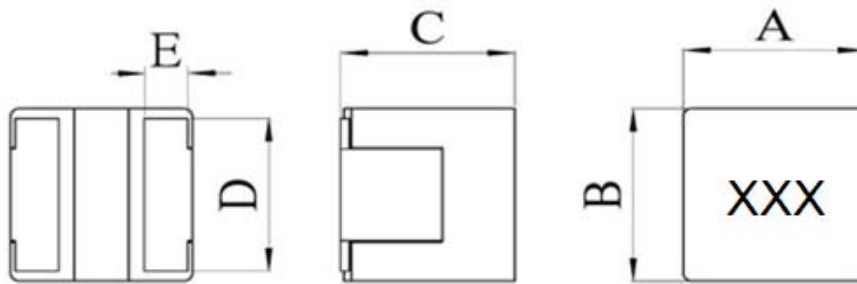
MND-04CZI4R7M-XB-RU



MND-04CZI6R8M-XB-RU



## Product Dimension

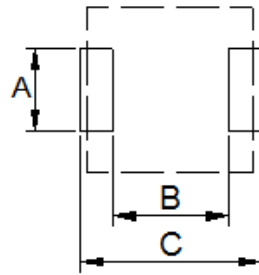


Code: XXX = R36 = 0.36  $\mu$ H

Dimension	A	B	C	D	E
Part number					
MND-04CZISERIES-XB-RU	$4.0 \pm 0.3$	$4.0 \pm 0.3$	3.0 Max	$3.4 \pm 0.2$	$1.0 \pm 0.4$

Unit: mm

## ■ Recommended PCB Layout



Type	04CZ
A	3.7
B	1.39
C	3.35

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 coil itself does 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 and etc. in abnormal conditions to provide protective devices and/or protection circuit in the end product.

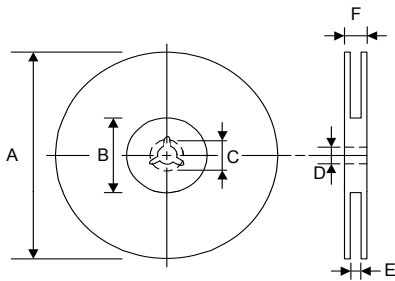
## Packaging

### Peel-off force



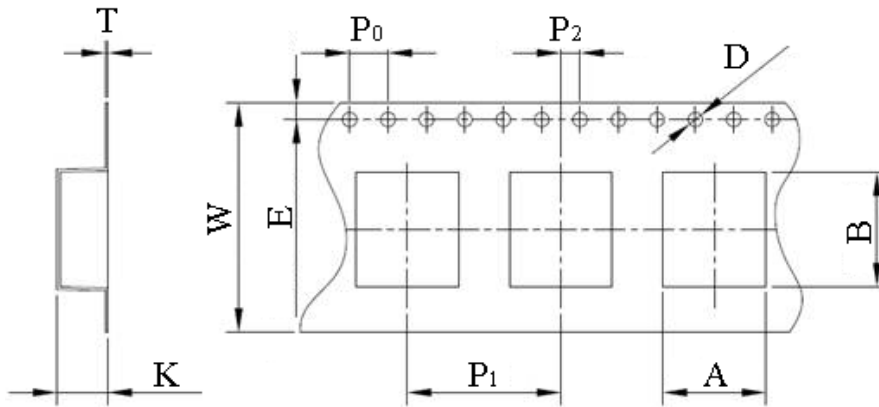
The peel off force of cover tape is 10 to 70 grams in the arrow direction.

### Dimensions



Type	A	B	C	D	E	F
330mm	330±2	100±1	20±0.5	13±1.0	12.4+2/-0	17.4±2

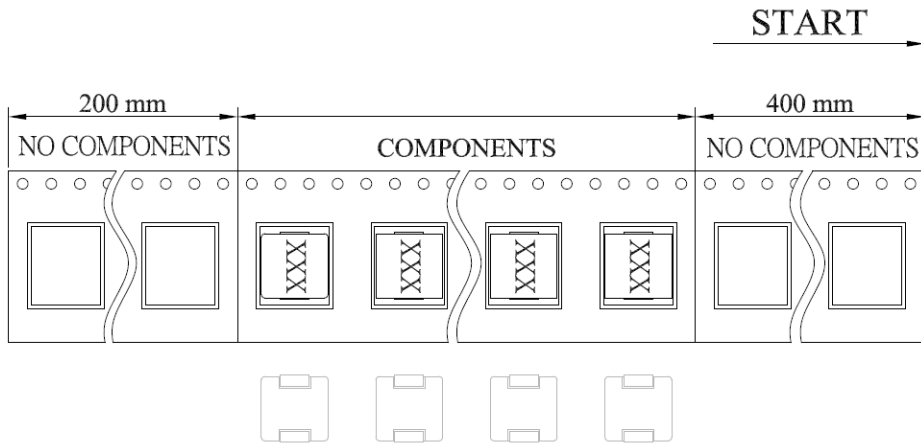
Unit: mm



TYPE	SIZE	A	B	W	P <sub>1</sub>	K
MND	04CZ	4.3±0.1	4.4±0.1	12.0±0.3	8.0±0.1	3.5±0.1
		P <sub>0</sub>	P <sub>2</sub>	D	E	T
		4.0±0.1	2.0±0.1	1.5±0.1	1.75±0.1	0.35±0.05

Unit: mm



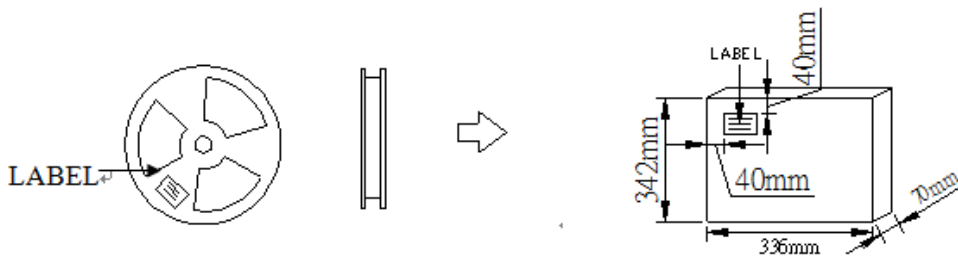


**Taping quantity**

Series	04CZ
PCS/Reel	2000

**Carton box**

Middle packaging: 3 reels/box



External packaging: 5 boxes/carton

