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

AEC-Q200 grade 0 qualified

Product Identification

1		2	3 4	5
MLA	0	FY12	N 3R3 🗆 -	X1

- ① Product Code
- ② Dimensions
- ③ Inductance: 3R3 = 3.3 μH
- ④ Inductance Tolerance: $M = \pm 20\%$, $N = \pm 30\%$
- (5) Series Type: X1 Type

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



Electrical Performance

	Inductance	Rdc(mΩ)		Heat rating	Saturation
Part number	@0A			current (Idc) ¹	current (Isat) ²
	(µH)	Тур.	Max.	DC amps (A)	DC amps (A)
MLA0FY12N3R3X1	3.3	105	127	2	2.5

Note

Test frequency: 1MHz, 0.25V.

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

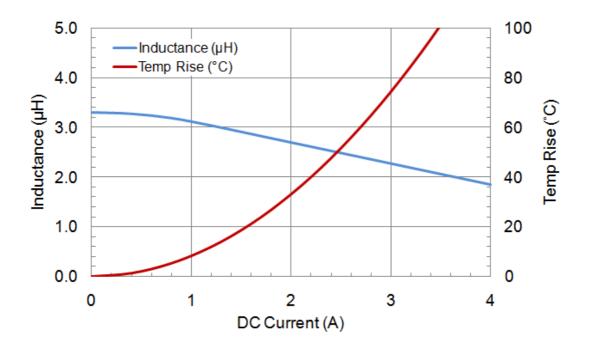
Rdc: ADEX AX1152D or equivalent.

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℃ ambient.
- 4. Operating temperature range -55℃ to +155℃.
- 5. Withstand voltage: 25V DC.



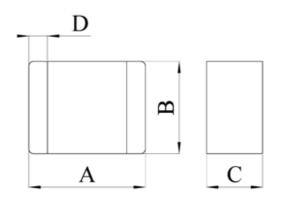
Electrical Characteristics





MLA0FY12N3R3 -X1

Product Dimension

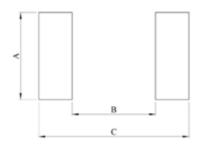


Dimension Part number	А	В	С	D
MLA0FY12N3R3X1	3.2 ± 0.2	2.5 ± 0.2	1.2 Max	0.6 ± 0.2
				L Init: mr

Unit: mm



Recommended PCB Layout



Туре	FY12
A	2.5
В	1.7
С	3.5
	Unit: mm

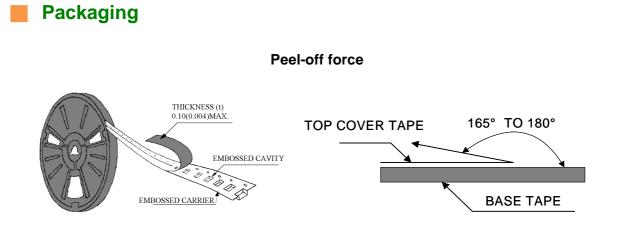
Safety precaution

- 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.

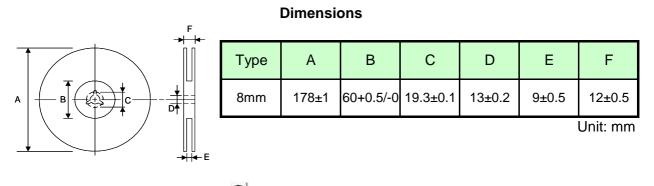
This power choke do not have any protective function in abnormal condition such as overload, short circuit, open conditions and etc, it shall be confirmed as the end product that there is no risk of smoking, fire, dielectric withstand voltage, insulation resistance etc. in abnormal conditions to provide 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.

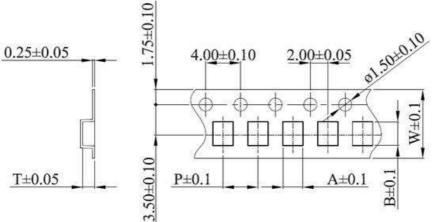


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The peel off force of cover tape is 10 to 70 grams in the arrow direction.

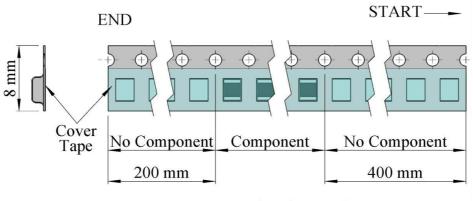




TYPE	SIZE	А	В	W	Р	Т
MLA0	FY12	2.8	3.5	8.0	4.0	1.4
						Unit: mm



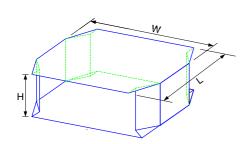
MLA0FY12N3R3 -X1



User Direction Feed

Taping quantity

Series	FY12	
PCS/Reel	3000	



Tape packing case

N

J						
lumber of case	W	L	Н			
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			

