■ Features

- General purpose inductors.
- Use ferrite cores.
- High saturation current.
- Tinplated lends.
- Coated with varnish.
- Operating temperature:-40℃ ~ +105℃.

■ Applications

- Power supplies,Power amplifiers.
- SCR and triac circuits.
- Output chokes.
- Noise filters for switching regulators, Other filters.

■ Product Identification

YDRI □□□□□ −□□□ □ □

(1) (2) (3) (4) (5)

(1)： Type

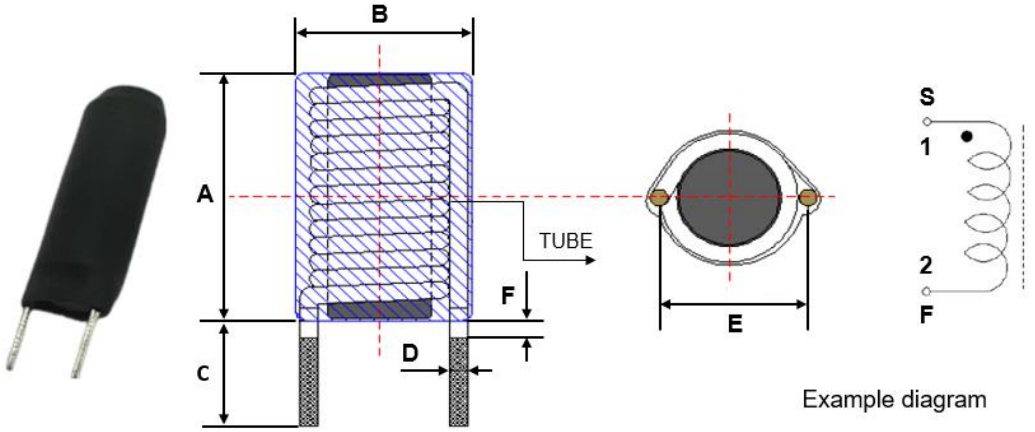
(2)： Dimensions

(3)： Inductance value

(4)： Inductance Tolerance： N=±30%,M=±20%，L=±15%，MIN=Min.

(5)： Product Form

■ Shapes and Dimensions (Unit：mm)



Example diagram

TYPE	A Max.	B Max.	C	D	E	F Max.
YDRI0312D	13.5	6.0	3.5±0.5	0.45±0.05	4.5±1.0	1.0

■ Electrical specification

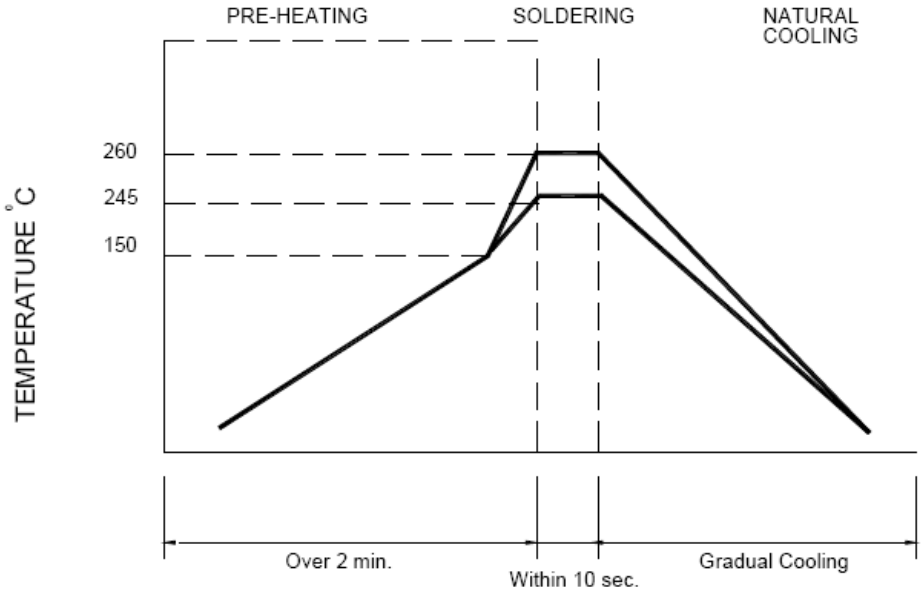
Part Number	Inductance (uH)	Test Frequency	DCR Max. (mΩ)	Isat Max.(A)
YDRI0312D-4R0MINL-B	4.0 Min.	1KHz/0.25V	56	3

■ Test Data of Electrical Characteristic

Electrical Characteristic				Dimensions(mm)					
Test Item	L	DCR	Isat	A	B	C	D	E	F
CON.	1KHz/0.25V	25℃	L Drop≤10% 10KHz/0.25V						
Spec.	4.0uH Min.	56 mΩ Max.	3A	13.5 Max.	6.0 Max.	3.5±0.5	0.45±0.05	4.5±1.0	1.0 Max.
1	4.63	28.4	OK	12.50	5.38	3.54	0.45	4.32	0.00
2	4.65	28.5	OK	12.34	5.40	3.62	0.45	4.50	0.00
3	4.62	28.4	OK	12.55	5.49	3.55	0.45	4.27	0.00
4	4.64	28.4	OK	12.57	5.37	3.81	0.45	4.24	0.00
5	4.63	28.6	OK	12.48	5.42	3.73	0.45	4.56	0.00
6									
7									
8									
9									
10									
X	4.63	28.5		12.49	5.41	3.65	0.45	4.38	0.00
R	0.03	0.20		0.23	0.12	0.27	0.00	0.32	0.00

■ Soldering Conditions

Wave Soldering:



Note:

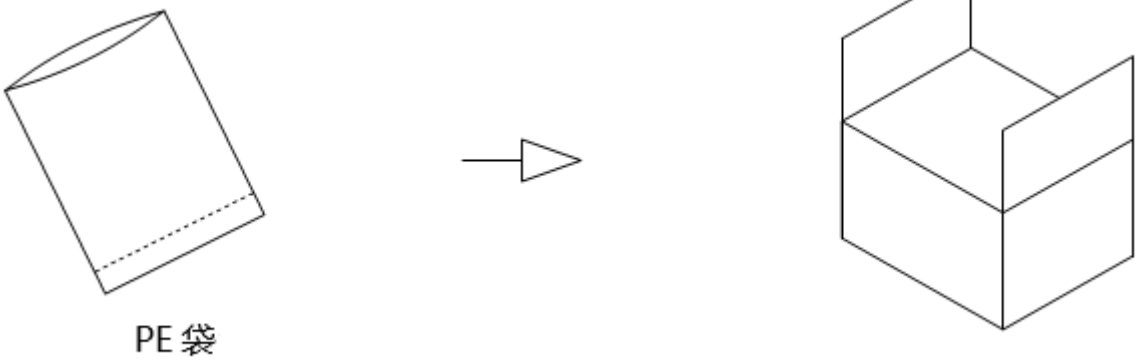
Never contact the ceramic with the iron tip

1.0mm tip diameter(max)

■ Material list

NO	ITEM	DESCRIPTION	SUPPLIER	RATING	UL FILE
1	Core	K4 R3×12	HONG JUN		
		OR EQUIVALENT			
2	Wire	2UEWF Φ0.45mm	PROSPERITY	155℃	E196072
		OR EQUIVALENT			
3	Epoxy	E506 Gray	EATTO		
		OR EQUIVALENT			
4	TUBE	T-2 UL flat tube (Black)	QUAN TAI	125℃	E227336
		OR EQUIVALENT			

■ Package specification



Type	Quantity(pcs)			Remark
	Bag	Inside box	Outer box	
YDRI0312D	500	5000	10000	