## ■ Features

- High rated current for circuit design.
- Design by special lead wire to prevent open circuit failure.
- Low cost with rugged reliability and performance fixed inductor.
- Operating temperature:-40℃ ~ +125℃.

## ■ Applications

- TVs and Audio equipment.
- Notebook,Inkjet printer,Copying machine,Display monitor,Cellular phone.
- Switching Power Supply.
- Excellent as DC/DC converter boost or buck inductor.

## ■ Product Identification

YPK □□□□ – □□□ □

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

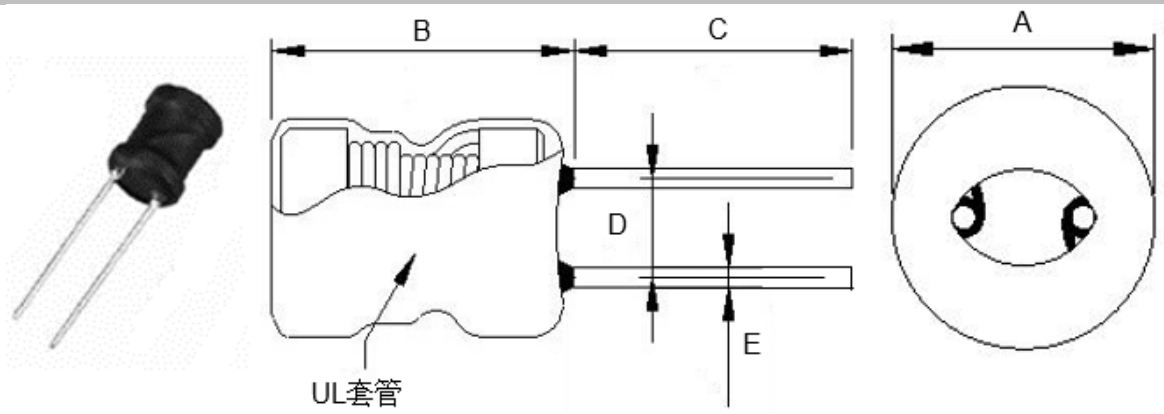
(1) ：Type

(2) ：Dimensions

(3) ：Inductance value

(4)：Inductance Tolerance：N=±30%,M=±20%，K=±10%，J=±5%

## ■ Shapes and Dimensions (Unit：mm)




| TYPE | A Max. | B Max. | C | D | E |
|---|---|---|---|---|---|
| YPK1016 | 12.5 | 19.0 | 5..0±0.5 | 6.0±0.5 | 0.65±0.10 |

## ■ YPK1016 Series

| Part Number | Inductance (uH) | L Test Frequency (KHz) | Max.DC Resistance (Ω) | Max.Rated Current (mA) |
|---|---|---|---|---|
| YPK1016-221K | 220 | 1 | 0.23 | 1000 |

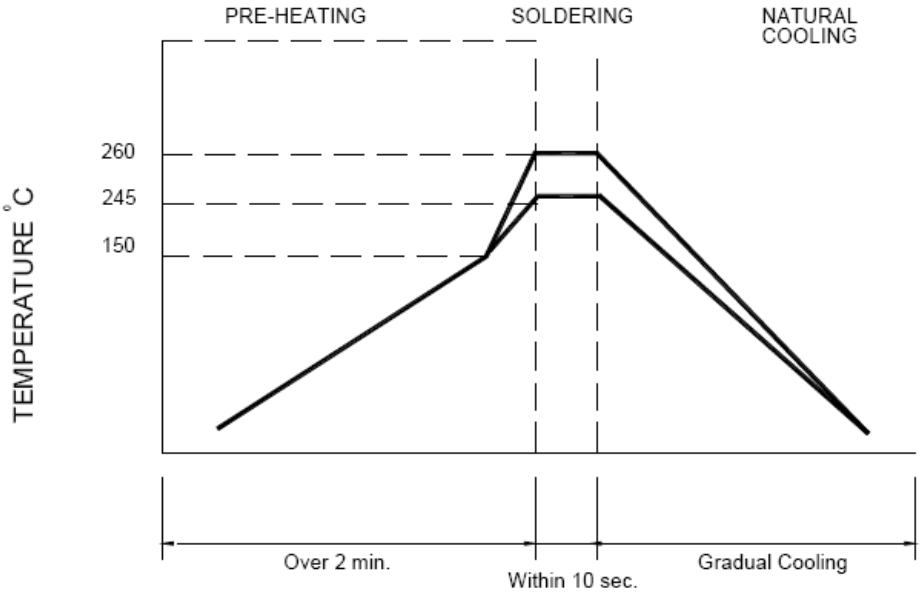
※ Design as Customer's Requested Specifications.

## ■ Reliability test

| NO. | Items | Test Methods | Requirements |
|---|---|---|---|
| 1 | Lead terminalstrength | A static pulling force of 5N in a direction parallel tothe lead terminals for 60±5 seconds. | No terminal breakage orloosening. |
| 2 | Resistance tosoldering heattest | Fix the samples on a 1.6mm thickness PCB,then dip thesample leads into a soldering bath of 270±5℃ up tothe PCB for 5±1 seconds. | No significant abnormality inappearance.Deviation relative toinitial value:L:Within ±10% |
| 3 | Solder abilitytest | Immerse the terminal in flux for 5 seconds. Then dipthe terminal into a soldering bath of 245±5℃ for 2±0.5 seconds. | At least 90% of terminalelectrode is covered by newsolder. |
| 4 | Humidity test | Temperature:40℃±2℃<br>Humidity :90%～95%RH<br>Duration:96±4 Hours | No significant abnormality inappearance.Deviation relative toinitial value:L:Within ±10% |
| 5 | Hightemperaturestroage test | Emperature:85℃±2℃<br>Duration :96±4 Hours | No significant abnormality inappearance.Deviation relative toinitial value:L:Within ±10% |
| 6 | Lowtemperaturestorage test | Temperature :-25℃±2℃<br>Time:96±4 Hours | No significant abnormality inappearance.Deviation relative toinitial value:L:Within ±10% |
| 7 | Thermal shocktest | First -25±5℃ for 30±3 minutes，<br>last 85±5℃ 30±3minutes as 1 cycles.<br>Go through 10 cycles. | No significant abnormality inappearance.Deviation relative toinitial value:L:Within ±10% |

## ■ Soldering Conditions

Wave Soldering:




Note:

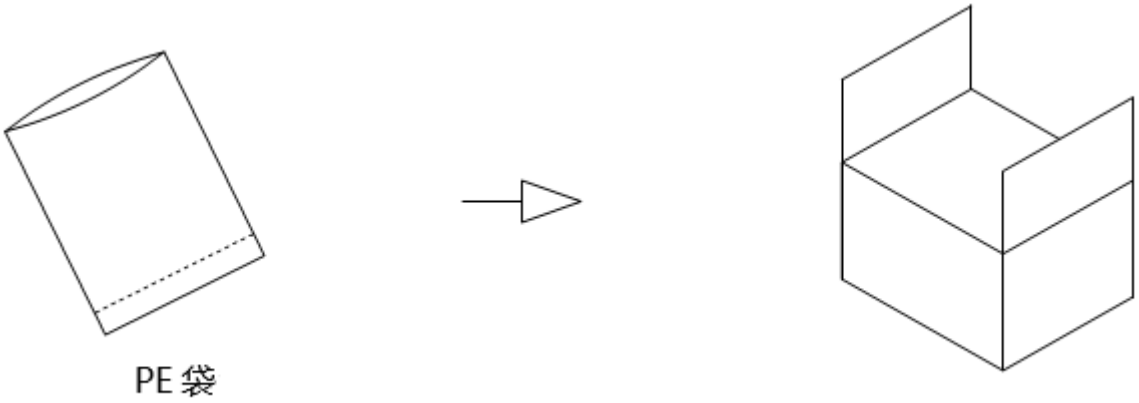
Never contact the ceramic with the iron tip

1.0mm tip diameter(max)

## ■ Material list

| NO | ITEM | DESCRIPTION | SUPPLIER | RATING | UL FILE |
|---|---|---|---|---|---|
| 1 | Core | SR53 DR2W 10×16 | SUNRISE | | |
| | | OR EQUIVALENT | | | |
| 2 | Wire | 2UEWF Φ0.5mm | PROSPERITY | 155℃ | E196072 |
| | | OR EQUIVALENT | | | |
| 3 | TUBE | T-2 Φ10*18.5 UL(Black) | QUANTAI | 125℃ | E227336 |
| | | OR EQUIVALENT | | | |
| 4 | PIN | CP Φ0.65mm | BAICHUAN | | |
| REMARK: | | | | | |

## ■ Package specification




| Type | Quantity(pcs) | | | Remark |
|---|---|---|---|---|
| | Bag | Inside box | Outer box | |
| YPK1016 | 100 | 1000 | 4000 | |

# Unikeyic Electronics

Global Electronic Components Distributor

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## YJYCOIN:

YAL0204-151K YLM1211-202T YLM1211-222T YSPIA1770-100M YI100505U121-1R2T
YI201209U800-6R0T YNR4030-6R8M YSPI0730-R22M CD54YP0504-101M YLCM0904-471T
YNR2016-3R3M YPRH1207-150M YSFP2915S-6R8M YWLD2012-3R3K CD32YP0302-4R7M
YDFW1515T-302L03015 YNR1050-271M YNR6045-330M YPRH3D16-330M YP0402-330M
YSMC2016S-R24M YSPI1050-101M YI321611U601-3R0T YLM2012-900T YP0705-680M YPRH1207-4R7M
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