

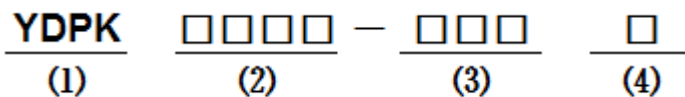
■ Features

- 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: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.

■ 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



(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 | F |
|----------|--------|--------|----------|----------|---------|---------|
| YDPK0912 | 15.0 | 11.0 | 17.0±2.0 | 17.0±2.0 | 5.0±0.5 | 0.8±0.1 |

■ Electrical specification

| Part Number | Inductance (uH) | Test Frequency | Max.DCR (Ω) | Isat (A) |
|---------------|-----------------|----------------|-------------|----------|
| YDPK0912-821K | 820±10% | 1KHz/0.25V | 1.5 | 1.0 |

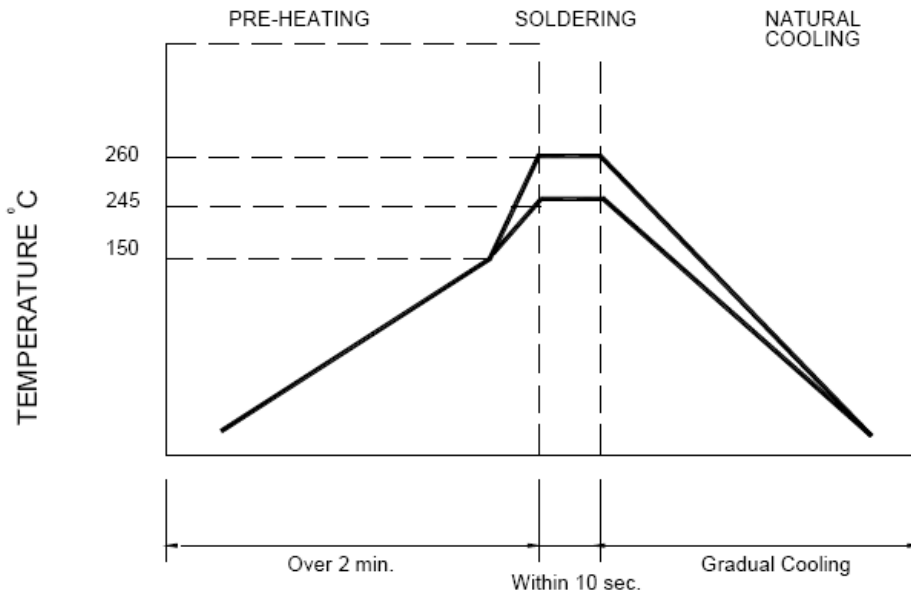
※ Design as Customer's Requested Specifications.

■ Reliability test

| NO. | Items | Test Methods | Requirements |
|-----|-----------------------------------|---|---|
| 1 | Lead terminal strength | A static pulling force of 5N in a direction parallel to the lead terminals for 60±5 seconds. | No terminal breakage or loosening. |
| 2 | Resistance to soldering heat test | Fix the samples on a 1.6mm thickness PCB, then dip the sample leads into a soldering bath of 270±5°C up to the PCB for 5±1 seconds. | No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10% |
| 3 | Solder ability test | Immerse the terminal in flux for 5 seconds. Then dip the terminal into a soldering bath of 245±5°C for 2±0.5 seconds. | At least 90% of terminal electrode is covered by new solder. |
| 4 | Humidity test | Temperature: 40°C±2°C Humidity : 90%~95%RH Duration: 96±4 Hours | No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10% |
| 5 | High temperature storage test | Temperature: 85°C±2°C Duration : 96±4 Hours | No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10% |
| 6 | Low temperature storage test | Temperature : -25°C±2°C Time: 96±4 Hours | No significant abnormality in appearance. Deviation relative to initial value: L: Within ±10% |
| 7 | Thermal shock test | First -25±5°C for 30±3 minutes, last 85±5°C 30±3 minutes as 1 cycles. Go through 10 cycles. | No significant abnormality in appearance. Deviation relative to initial 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 | DR2W 9×12 | HUICI | | |
| | | OR EQUIVALENT | | | |
| 2 | Wire | QA-1 ϕ 0.27mm | JINYAN | 155°C | E238500 |
| | | OR EQUIVALENT | | | |
| 3 | TUBE | T-2 UL(Black) | QUANTAI | 125°C | E227336 |
| | | OR EQUIVALENT | | | |
| 4 | PIN | TCW ϕ 0.8mm | MINGTONG | | |
| REMARK: | | | | | |

■ Package specification



PE 袋



| Type | Quantity(pcs) | | | Remark |
|----------|---------------|------------|-----------|--------|
| | Bag | Inside box | Outer box | |
| YDPK0912 | 200 | 2000 | 4000 | |

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [YJYCOIN](#) manufacturer:

Other Similar products are found below :

[CR32NP-100KC](#) [70F224AI](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#)
[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)