

## ■ Features

- Line filters suppressing conductive noise ranging from low to high frequency generated at power supply circuit of various electronic equipment.
- High levels of safety and reliability.
- Extremely cost effective design.
- Useful for application requiring inductance to vary with current load changes.
- Self electromagnetic shielding. Easy PC board mounting on version application.

## ■ Applications

- TV and Audio equipment.
- Switching power supplies.
- Motherboard.
- Buzzers and Alarm systems.
- Other noise filters.

## ■ Product Identification

|             |               |   |            |          |
|-------------|---------------|---|------------|----------|
| <u>YDTC</u> | <u>181007</u> | — | <u>182</u> | <u>L</u> |
| (1)         | (2)           |   | (3)        | (4)      |

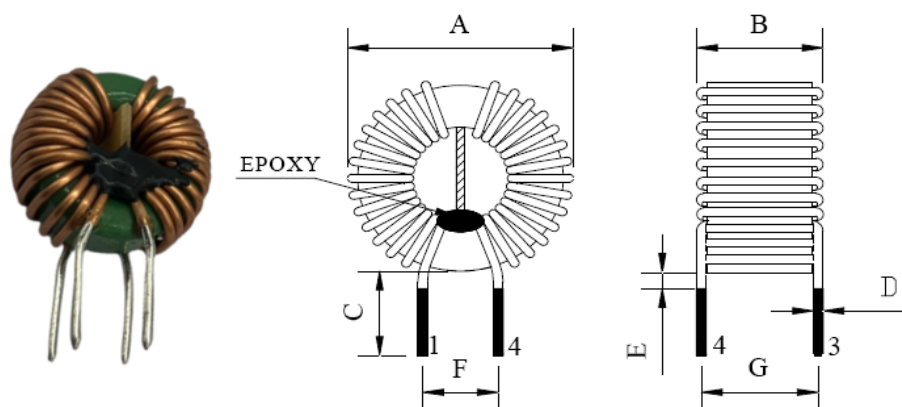
(1) : Type

(2) : Dimensions

(3) : Inductance value: 182=1.8mH

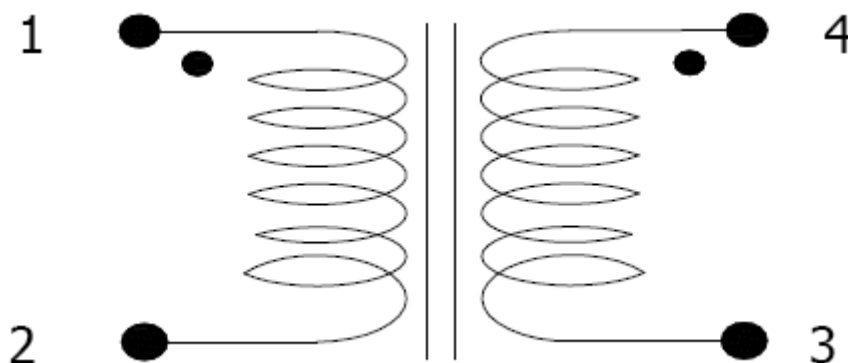
(4) : Style: L- vertical W-horizontal

## ■ Shapes and Dimensions (Unit: mm)



| A Max. | B Max. | C        | D       | E Max. | F       | G       |
|--------|--------|----------|---------|--------|---------|---------|
| 24.0   | 13.5   | 10.0±2.0 | 1.2±0.1 | 1.5    | 7.0±1.0 | 8.5±1.0 |

## ■ Schematic Circuit



## ■ General Specification

Rating DC current: Temperature rise( $\Delta T$ ) is 40°C approximately at  $I_{rms}$ .

## ■ Electrical Specification(at 25°C)

| Test Item | Spec       | Pin           | Test Condition  | Test Instruments |
|-----------|------------|---------------|-----------------|------------------|
| L         | 1.8mH Min. | 1-2,4-3       | 1KHz/0.25V 100Ω | HP-4284A         |
| DCR       | 15mΩ Max   | 1-2,4-3       | 25°C            | 502BC            |
| HI-POT    | 1000VAC    | Coils ~ Coils | 5mA/3S/50Hz     | TH-9320          |
| HI-POT    | 600VAC     | Coils ~ Core  | 5mA/3S/50Hz     | TH-9320          |
|           |            |               |                 |                  |

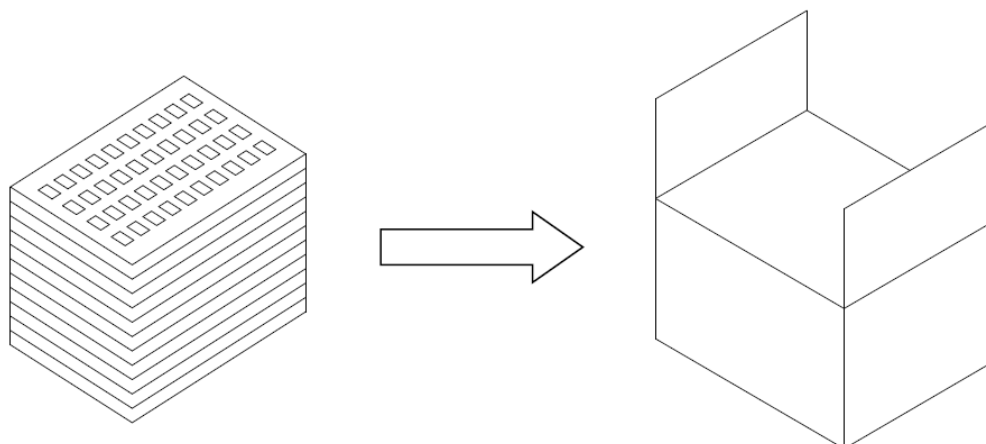
## ■ Winding Construction

| Order | S – F | Wire Size    | Turns    | Notes         |
|-------|-------|--------------|----------|---------------|
| N1    | 1 – 2 | 2UEWFΦ1.0×1P | 14.5 REF | Split winding |
| N2    | 4 – 3 | 2UEWFΦ1.0×1P | 14.5 REF | Split winding |

## ■ Reliability

| No. | Item          | Material                      | Vendor     | Rating | UL File |
|-----|---------------|-------------------------------|------------|--------|---------|
| 1   | CORE          | T18×10×7C YF15K Green coating | YUFENG     |        |         |
|     |               | T18×10×7C LTH15 Green coating | LITONG     |        |         |
| 2   | WIRE          | 2UEWF Φ1.0                    | PROSPERITY | 155°C  | E196072 |
|     |               | 2UEWF Φ1.0                    | PACIFIC    | 155°C  | E201757 |
| 3   | VARNISH       | DA-700-6                      | QIANG DA   | 130°C  | E347463 |
| 4   | SOLDER        | SN99.90AA                     | YUNNAN TIN | N/A    |         |
| 5   | EPOXY         | BSA-6201AB Black              | FUFAN      |        |         |
| 6   | PCB<br>SPACER | FR-1                          | KINGBOARD  | 130°C  | E123995 |
|     |               |                               |            |        |         |

## ■ Packaging



| No. | Packaging Materials | Reference Dimension | Material | Quantity     |
|-----|---------------------|---------------------|----------|--------------|
| 1   | Box(T003)           | 265×180×15(mm)      | PET      | 60PCS/Box    |
| 2   | Master Carton       | 315×210×135(mm)     | K36K     | 10Box/Carton |