

## ■ 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>311913</u> | — | <u>152</u> | <u>L</u> |
| (1)         | (2)           |   | (3)        | (4)      |

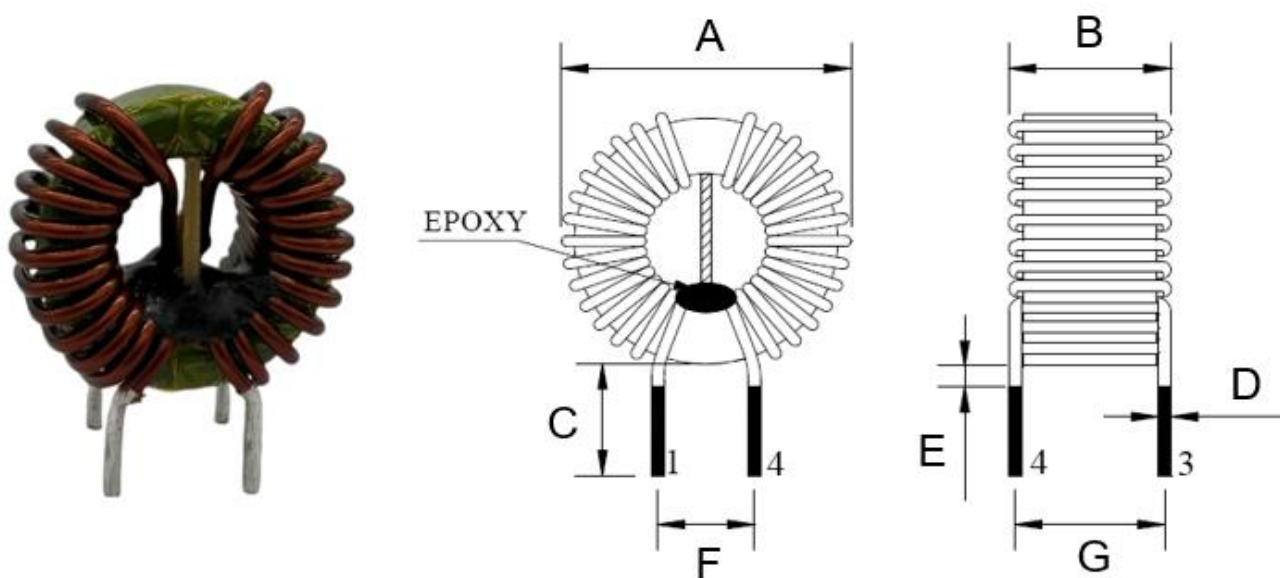
(1) : Type

(2) : Dimensions

(3) : Inductance value: 152=1.5mH

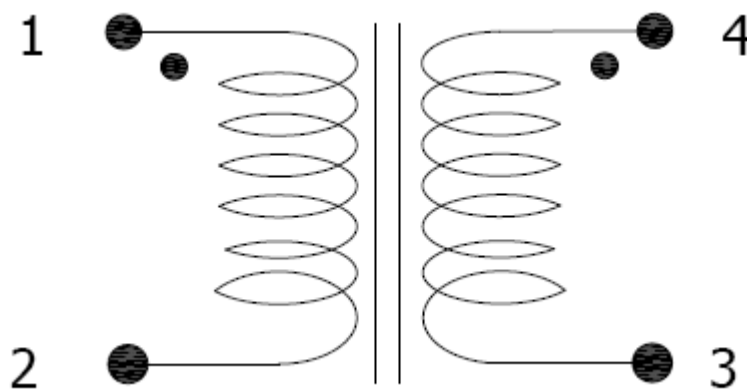
(4) : Style: L- vertical W-horizontal

## ■ Shapes and Dimensions (Unit: mm)



| A Max. | B Max. | C        | D       | E Max. | F Ref. | G Ref. |
|--------|--------|----------|---------|--------|--------|--------|
| 39.0   | 20.0   | 10.0±1.0 | 1.8±0.1 | 1.5    | 14.0   | 15.5   |

## ■ Schematic Circuit



## ■ Electrical Specification(at 25℃)

| Test Item     | Spec        | Pin         | Test Condition   | Test Instruments |
|---------------|-------------|-------------|------------------|------------------|
| L             | 1.5mH Min.  | 1-2,4-3     | 1KHz/0.25V R100Ω | TH-2828          |
| DCR           | 10.0mΩ Max. | 1-2,4-3     | 25℃              | 502BC            |
| HI-POT        | 1000VAC     | COILS~COILS | 1mA /3S/50Hz     | TH-9320          |
| Rated Current | 20A         |             |                  |                  |
|               |             |             |                  |                  |

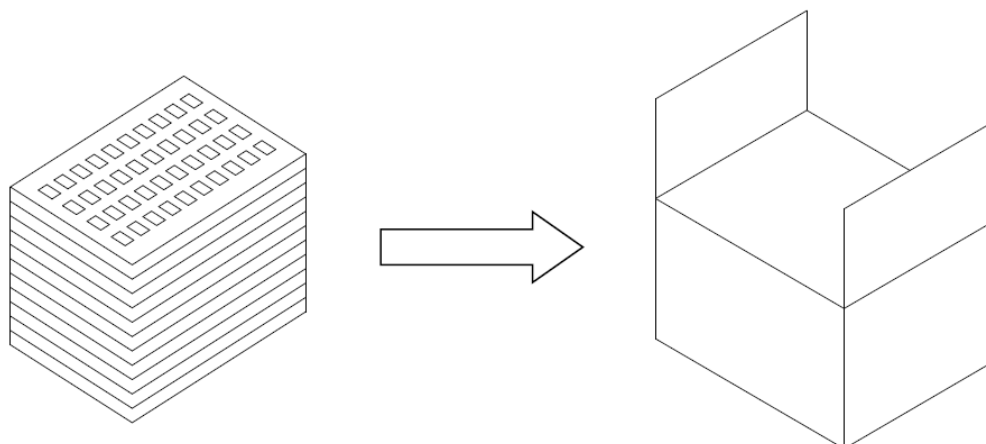
## ■ Winding Construction

| Order | S – F | Wire Size   | Turns    | Notes         |
|-------|-------|-------------|----------|---------------|
| N1    | 1 – 2 | QZY Φ1.8×1P | 11.5 REF | Split winding |
| N2    | 4 – 3 | QZY Φ1.8×1P | 11.5 REF | Split winding |

## ■ Reliability

| No. | Item       | Material                    | Vendor                 | Rating | UL File |
|-----|------------|-----------------------------|------------------------|--------|---------|
| 1   | CORE       | T31×19×13C<br>Green coating | YUFENG                 | N/A    |         |
|     |            | T31×19×13C<br>Green coating | LITONG                 | N/A    |         |
|     |            | OR EQUIVALENT               |                        |        |         |
| 2   | WIRE       | QZY-2 Φ1.8 Brown            | JINYAN                 | 180℃   | E238500 |
|     |            | QZY-2 Φ1.8 Brown            | YI DA                  | 180℃   | E344055 |
|     |            | OR EQUIVALENT               |                        |        |         |
| 3   | VARNISH    | DA-700-6                    | QIANG DA               | 130℃   | E347463 |
| 4   | SOLDER     | SN99.90AA                   | YUNNAN TIN             | N/A    |         |
| 5   | EPOXY      | BSA-6201 AB Black           | FUFAN                  | 130℃   |         |
| 6   | PCB SPACER | FR-1 Yellow                 | KINGBOARD<br>LAMINATES | 130℃   | E123995 |
| 7   | TAPE       | PF-301                      | YAHUA                  | 130℃   | E165111 |

## ■ Packaging



| No. | Packaging Materials | Reference Dimension | Material | Quantity     |
|-----|---------------------|---------------------|----------|--------------|
| 1   | Plastic Box(TC-001) | 265×180×15(mm)      | PET      | 34PCS/Box    |
| 2   | Master Carton       | 315×210×135(mm)     | K36K     | 10Box/Carton |