

■ 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 onversion application.

■ Applications

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

■ Product Identification

$$\frac{\text{YDTCB}}{(1)} \quad \frac{251513}{(2)} \quad - \quad \frac{282}{(3)} \quad \frac{\text{L}}{(4)}$$

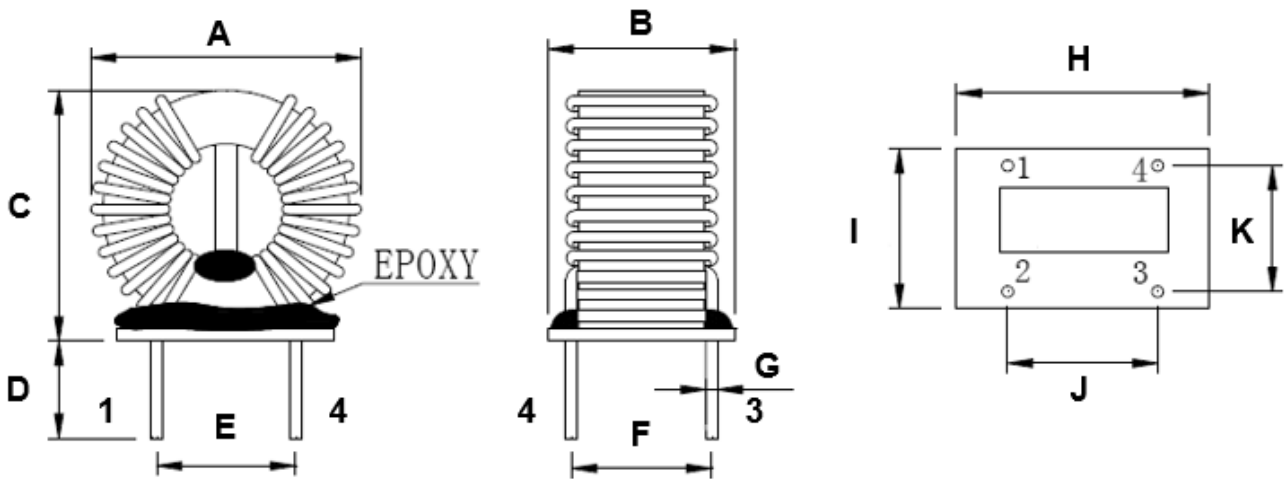
(1) : Type

(2) : Dimensions

(3) : Inductance value: 282=2.8mH

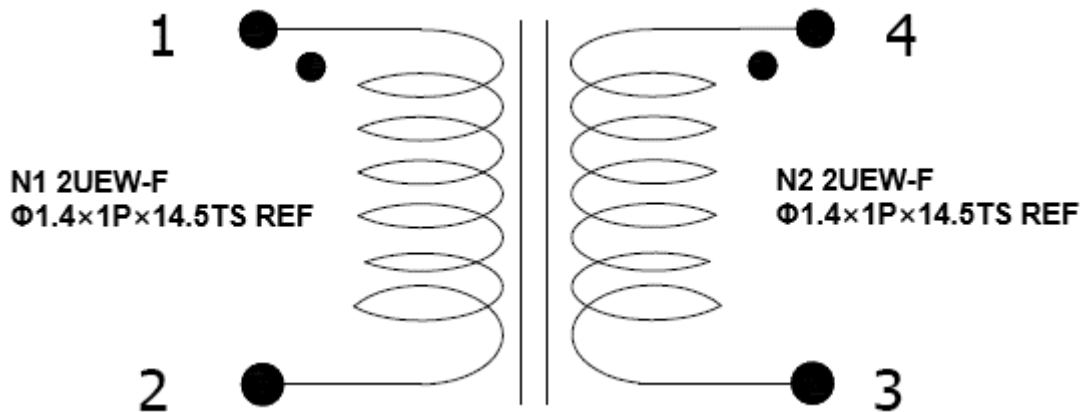
(4) : Style: L- vertical W-horizontal

Shapes and Dimensions (Unit: mm)



A Max.	B Max.	C Max.	D	E	F	G	H	I	J	K
30.5	21.6	27.8	5.0±0.5	23.0±1.0	15.0±1.0	1.4±0.1	28±0.5	21±0.5	23±1.0	15±0.5

Schematic Circuit



General Specification

Rating DC current: Temperature rise(ΔT) is 40°C approximately at I_{rms} .

■ Electrical Specification(at 25°C)

Test Item	Spec	Pin	Test Condition	Test Instruments
L	2.8mH Min.	1-2,4-3	1KHz/0.25V R100Ω	TH-2828
DCR	16 mΩ Max	1-2,4-3	25°C	502BC
Insulation Resistance	100M Ω Min.	Coils ~ Core	500VDC	TH-9320
HI-POT	1200VAC	Coils ~ Coils	1mA/3S/50Hz	TH-9320
Rated Current	15A Max.	1-2,4-3	ΔT≤40°C	TH2829A+TH1778A

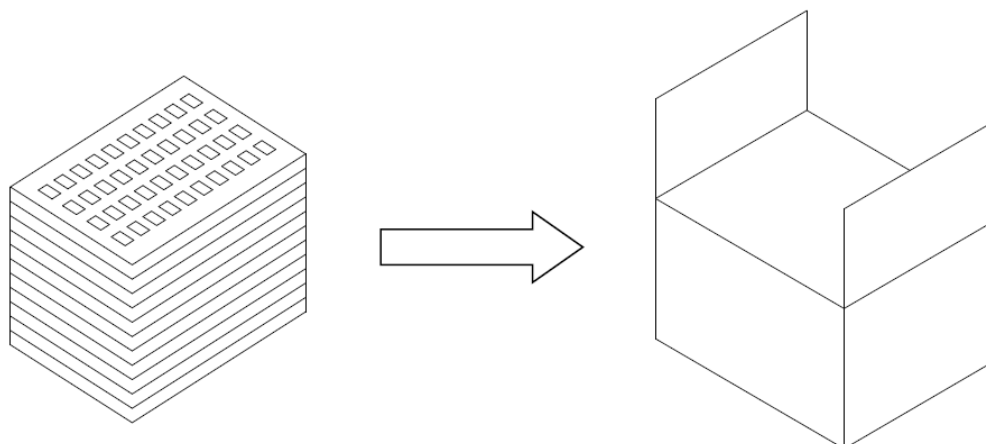
■ Winding Construction

Order	S – F	Wire Size	Turns	Notes
N1	1 – 2	2UEW-F Φ1.4×1P	14.5TS	Split winding
N2	4 – 3	2UEW-F Φ1.4×1P	14.5TS	Split winding

■ Reliability

No.	Item	Material	Vendor	Rating	UL File
1	Core	T25×15×13C LTH15 Green coating	LiTong		
		T25×15×13C YF15K Green coating	YFCD		
2	Wire	P1-2: 2UEW-F Φ1.4	Prosperity	155°C	E196072
		P4-3: 2UEW-F Φ1.4	Prosperity	155°C	E196072
3	Varnish	DA-700-6	Qiang Da	130°C	E347463
4	Epoxy	BSA-6201AB Black	FuFan	130°C	
5	PCB Spacer	14.5×15.5×T1.5mm-4P FR-4.1 Yellow	KingBoard Laminates	130°C	E123995
6	PCB Base	21×28×T1.5mm-4P FR-4.1 Yellow	KingBoard Laminates	130°C	E123995
7	Solder	SN99.90AA	Yunnan Tin		

■ Packaging



No.	Packaging Materials	Reference Dimension	Material	Quantity
1	Box(R005)	270×225×15(mm)	PET	20PCS/Box
2	Master Carton	315×210×135(mm)	K36K	15Box/Carton