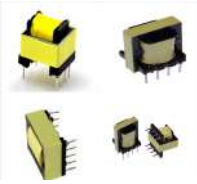
High Frequency Transformers–EE EFD Series



FEATURES

- ROHS, Halogen free and REACH Compliance.
- High transmission power, low loss.
- Wide frequency range, stable performance, low temperature rise.

APPLICATIONS

●Used for transmitter, computer, communication equipment and TV.electronic instruments and equipment, aerocraft, etc

PRODUCT IDENTIFICATION

01	02		03	04
ZEE	10	—	102	M

01

TyPe	
ZLF	High Frenquency Transformer

02

External Dimensions (LxW)(mm)	
10	10.0x 10.0
13	12.5x 12.5

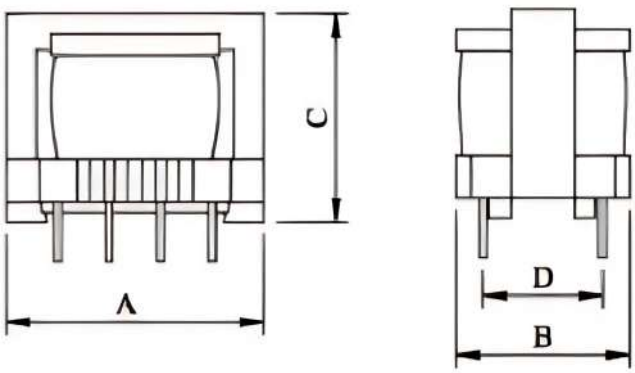
03

Nominal Inductance	
Example	Nominal value
100	10uH
101	100uH
102	1000uH

04

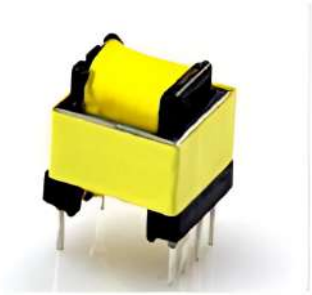
Tolerance	
J	±5%
K	±10%
M	±20%

SHAPE AND DIMENSIONS



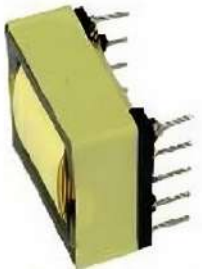
SPECIFICATIONS

● ZEE TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric srength
	7.8*7.8*8.2	0.2-5	0.1-0.6	EE6.3
	10.0*10.0*10.0	0.3-20	0.2-1.0	EE8.3
	12.5*12.5*13.0	0.5-50	0.2-1.5	EE10
	15.5*14.5*15	0.5-15	0.5-2.0	EE13
	18.0*14.5*17.0	0.5-25	0.5-2.0	EE16
	19.0*19.5*17.5	0.5-20	0.5-3.0	EE16
	20.5*17.5*20.0	0.5-20	0.5-3.0	EE16
	23.5*17.5*20.0	0.5-25	0.5-3.5	EE22
	26.5*18.5*23.5	0.5-30	0.5-4.0	EE25

Note：The products can be customized according to customer requirement

● ZETD TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric srength
	17.0*18.0*9.5	0.5-10	0.5-2.5	ETD15
	22.0*23.0*11.0	0.5-15	0.5-3.0	ETD20
	27.0*28.0*13.0	0.5-20	0.5-3.0	ETD25
	32.0*33.0*14.0	0.5-30	0.5-3.5	ETD30
	36.0*36.0*25.5	0.5-20	0.6-2.5	ETD29
	41.5*41.5*32.0	0.5-30	0.5-4.0	ETD34
	46.0*46.0*37.5	0.5-35	0.5-5.5	ETD39
	55.0*58.5*42.5	0.5-40	0.5-6.5	ETD49
	26.5*18.5*23.5	0.5-30	0.5-4.0	EE25

Note：The products can be customized according to customer requirement

SPECIFICATIONS

● ZEPC TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric srength
	15.0*15.0*10.0	0.5-15	0.5-2.0	EPC13
	10.0*10.0*10.0	0.5-20	0.5-2.5	EPC17
	12.5*12.5*13.0	0.5-20	0.5-3.0	EPC19
	27.0*27.0*17.0	0.5-30	0.5-4.0	EPC25

Note：The products can be customized according to customer requirement

● ZER TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric srength
	32.0*40.0*27.5	0.5-20	0.5-2.5	ER28
	41.0*45.0*30.0	0.5-30	0.5-3.0	ER35
	42.0*45.0*32.0	0.5-40	0.5-4.0	ER40
	44.0*46.0*37.0	0.5-45	0.5-5.0	ER42

Note：The products can be customized according to customer requirement

DETAIL ELECTRICAL CHARACTERISTICS

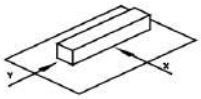
1. Operating temperature range: -40 to + 105°C(Includes temperature when the coil is heated) .

2. External appearance: On visual inspection, the coil has no external defects.

3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y

withstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.



4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.

5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.

6. Temperature characteristics: Inductance coefficient (0~2,000)x10-6/°C(-25~+80°C degree Celsius), inductance deviation within±5.0%, after 96 hours.

7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2°Cand 1 hour drying under normal condition.

8. Vibration resistance: Inductance deviation within ±5%, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.

9. Shock resistance: Inductance deviation within ±5%, after being dropped once with 981m/s2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.

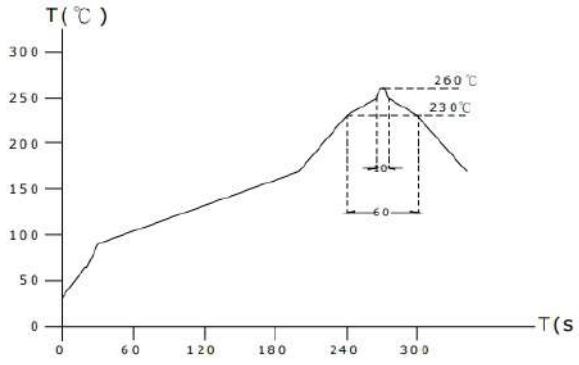
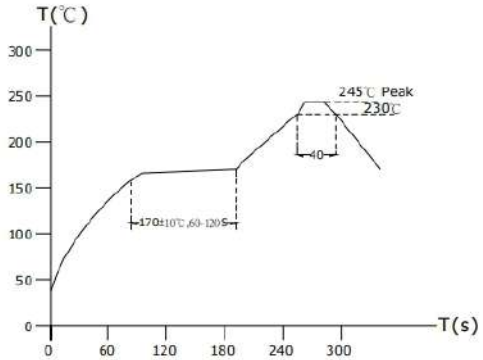
10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow) .

11. Storage condition: Temperature Range: 0°C ~ 35°C；-40°C ~ 105°C (after PCB)，Humidity Range: 50% ~ 70% RH.

12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.

13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition