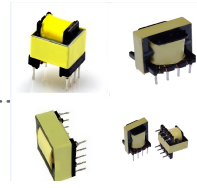


# High Frequency Transformers-EE EFD Series



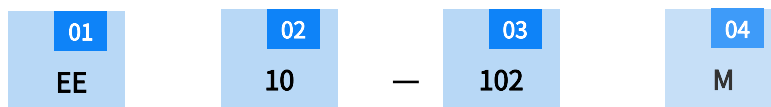
## FEATURES

- 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, aircraft, etc

## PRODUCT IDENTIFICATION



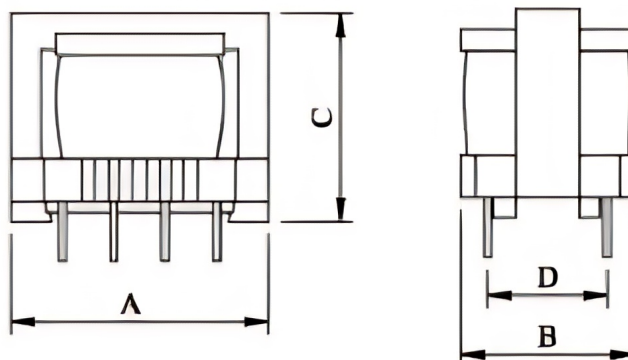
01	Type
EE	High Frequency Transformer

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

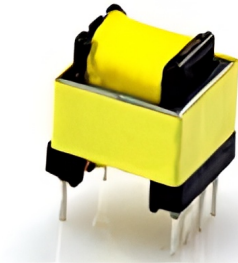
04	Tolerance
J	±5%
K	±10%
M	±20%

## SHAPE AND DIMENSIONS



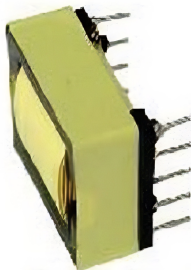
## SPECIFICATIONS

### ● EE TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric strength
	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**

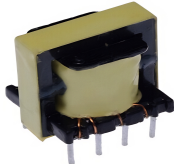
### ● ETD TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric strength
	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

### ● EPC TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric strength
	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**

### ● ER TYPE

Part Number	Dimension (L*W*H) mm	Inductance(mH)	Rated Current (A)	Dielectric strength
	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**

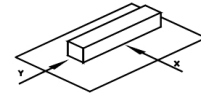


## DETAIL ELECTRICAL CHARACTERISTICS

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

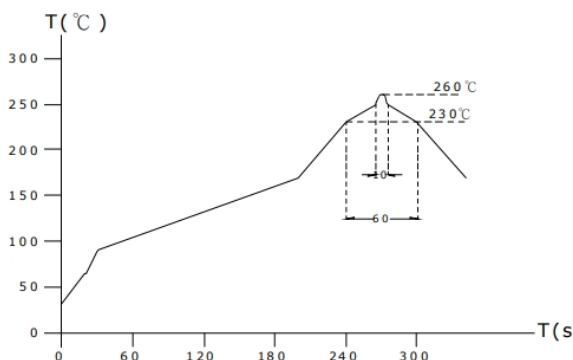
withstanding at below conditions.

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  $(0\sim2,000)\times10^{-6}/^{\circ}\text{C}$  (-25~+80°C degree Celsius), inductance deviation within  $\pm5.0\%$ , after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within  $\pm5\%$ , after 96 hours in 90~95% relative humidity at  $40\pm2^{\circ}\text{C}$  and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within  $\pm5\%$ , 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  $\pm5\%$ , after being dropped once with 981m/s<sup>2</sup> (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

