



EE Series High Frequency Transformer

Characteristics:

- Compact and low profile
- For SMD assembly
- Frequency up to 1 MHz
- Primary current rating to 40 A
- Operating temperature: -40 °C to +130 °C

Options:

- Packaging: Bulk is Standard
- Tolerance: 25% is Standard
- Custom design available

Common Applications:

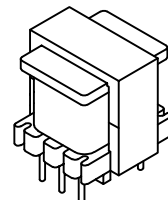
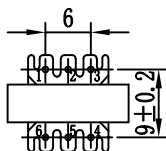
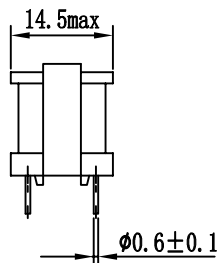
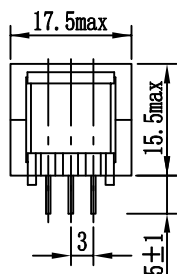
- AC-DC / DC-DC current detection
- Switch mode power supply
- Overload sensing
- Load drop/shutdown detection
- Metering
- Load measurements
- High frequency current sensing

Physical Properties

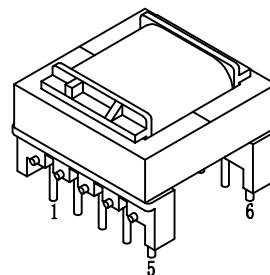
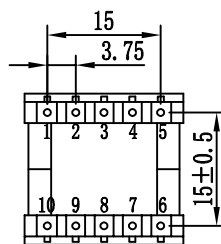
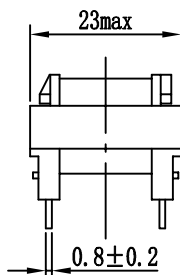
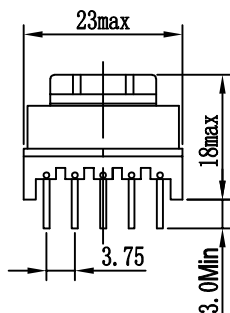
Order Code	Terminal Pins	Dimension mm			Type	Electrical Parameter	
		A	B	C		Inductance (μH)	Output power(W)
EE-8.3	6	8.0	8.0	8.3	Vertical	100	0.2-3.0
EE-10	8	11.5	10.2	10.2	Vertical	80	0.5-5.0
EE-13	10	12.0	12.5	13.0	Vertical	120	0.5-8.0
EE-16	6	14.8	13.3	16.0	Vertical	90	1.0-10.0
EEL-16	10	28.5	16.0	21.9	Vertical	600	2.0-15.0
EE-19	8	17.6	16.0	19.0	Vertical	800	3.0-30.0
EEL19	10	31.5	16.0	21.1	Vertical	1200	3.0-30.0
EE-25	6	20.0	18.2	25.2	Vertical	2000	3.0-45.0
EEL-25	8	35.3	17.5	25.2	Vertical	2800	3.0-45.0
EE-35	14	27.6	30.5	35.0	Horitcal	1500	3.0-55.0
EE-55	20	50.0	50.0	55.0	Horitcal	3000	3.0-150.0

Technical Specifications

Vertical



Horitcal



Certification

ISO Approval	GB/T 19001-2016/ISO 9001:2015
CQC Approval	GB/T 19212.1-2016;GB/T 19212.17-2019
UL Approval	11454637

Cautions and Warnings:

This document applies to all electronic components manufactured by **Infinity Technology Co., Ltd**,covering regulations related to production, packaging, storage, transportation, and handling to ensure product quality, safety, and reliability.

I.Production Requirements:

Scope of Application:

- These electronic components are designed and manufactured for use in general electronic equipment.
- If the components are intended for use in military, aerospace, aviation, nuclear control, submarines, transportation (automotive control, train control, ship control), transportation signaling, disaster prevention, medical, public information networks, or other fields requiring high safety and reliability, a written application must be submitted to Infinity Technology and formal approval obtained through the Production Part Approval Process (PPAP).
- Customers must pre-evaluate components intended for use in safety-critical or high-reliability applications to ensure suitability.

Design and Quality Requirements:

- The design, manufacturing, and testing of the products must strictly comply with the technical parameters and standards specified in the datasheet.
- If the usage conditions exceed the limits specified in the datasheet, component performance may degrade, lifespan may be reduced, and safety risks such as wire insulation damage or dissolution may arise.
- All products must meet international standards and undergo relevant reliability testing. However, Infinity Technology only guarantees compliance with its own specified product specifications and does not assume responsibility for customer-defined product characteristics or long-term effectiveness.

Process Control:

- All materials, equipment, and processes used in production must comply with the requirements of the **ISO 9001** Quality Management System.
- Complete production process records must be maintained to ensure traceability.
- All production batches must undergo quality inspections and reliability evaluations to ensure compliance with design standards.

II.Packing Requirements:

Packing Materials and Specifications:

- All packaging materials must meet moisture-proof, dust-proof, anti-static, and shock-resistant requirements to ensure product stability during storage and transportation.
- Packaging specifications apply to orders in full packaging units. If the ordered quantity exceeds or falls below the standard packaging unit , Infinity Technology does not guarantee compliance with original packaging specifications.

Labeling and Identification:

- Each batch of products must be labeled with clear information, including but not limited to product name, model, production batch, production date, specification parameters, and quality certification.
- Any tampering with or removal of labels will result in the voiding of warranty coverage.

III. Storage Requirements:

Storage Conditions:

- Products should be stored in an environment with a temperature of 5°C to 30°C and humidity of 40% to 70 % RH.

  No.99 Xingfa Road,Jiangning District, Nanjing,China Phone : +86 13851427688 (Mr.Cao) +86 15618213281 (Mrs.Cao) +86 18251887688 (Mr.Zhu) Email: Inf118@sina.com Inf1188@vip.sina.com Http://www.inftechs.com		CHECKED Darren REVISION 004.002 DATE(YYYY-MM-DD) 2024-11-22 GENERAL TOLERANCE ISO 2768-1m PROJECTION METHOD 
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- Direct exposure to sunlight, high humidity, high temperatures, corrosive gases, or other harsh environments is strictly prohibited.
- Storage conditions in the original packaging must comply with **DIN EN 61760-2** standards.

Storage Duration:

- Storage for more than 12 months is not recommended. Extended storage periods may result in oxidation or degradation of terminal plating, affecting solderability.
- All products should be used within 12 months from the shipment date to maintain performance and reliability.

IV.Handling and Usage Requirements:

Storage Duration:

- The soldering temperature profile must comply with the technical specifications of the product. Any non-specified soldering methods are at the customer ' s own risk and may void the warranty.
- Excessive force may affect the coplanarity of the component's electrical connection to the PCB (e.g., pin misalignment), leading to component damage or soldering failure.

Cleaning and Potting:

- Cleaning agents used in production may affect wire insulation, labeling, or plating and negatively impact long-term product functionality. Customers must ensure that cleaning agents are compatible with the product..
- Brushing during PCB cleaning is not recommended as the fine wire diameter may cause wire breakage.
- If the product is potted in a customer ' s application, the potting material may shrink or expand during curing, leading to incomplete sealing or damage to the component. A manual inspection after potting is recommended to verify sealing integrity.

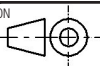
Electrical and Environmental Stress Considerations:

- Exceeding the rated current or operating conditions may lead to product failure and void the warranty.
- Excessive mechanical impact or high acceleration forces may damage electrical connections or circuit boards, affecting reliability.
- Audio-frequency currents may cause audible noise due to the magnetostrictive properties of materials. Customers should consider this effect in their applications.
- Operating temperature = Ambient temperature + Component temperature rise. The operating temperature of the product must not exceed the maximum temperature specified in the datasheet.

V.Liability Disclaimer:

- The provisions in this document are based on the current state of scientific and technical knowledge and are considered accurate and reliable. However, Infinity Technology assumes no responsibility for inaccuracies or omissions.
- Customers must independently assess the suitability of the product for their specific applications and assume full responsibility for its use.
- Infinity Technology is responsible only for product quality issues but does not assume liability for damages resulting from improper use, storage, handling, or installation by the customer.
- Any violation of the provisions outlined in this document may result in the voiding of warranty coverage.

This document takes effect upon issuance. Infinity Technology Co., Ltd reserves the final right of interpretation.

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This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Infinity Technology Co.,Ltd products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation, transportation signal, disaster prevention, medical, public information network etc.. Infinity Technology Co.,Ltd must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Important Notes

Supplementary Terms and Conditions for Electronic Component Companies

These supplementary terms apply to Infinity Technology Co., Ltd and all electronic components within its product range. They cover customer responsibilities, product applicability, safety requirements, intellectual property, product lifecycle management, and other key aspects to ensure compliance, safety, and proper customer use. This document serves as an addendum to the current General Terms and Conditions of Infinity Technology Co., Ltd.

1. General Customer Responsibilities

1.1 Product Applicability Statement

Infinity Technology may provide statements regarding the suitability of certain products for specific applications. These statements are based on typical application requirements and industry experience, serving as general guidance only. They do not constitute guarantees or commitments regarding a customer ' s specific application.

Customers are responsible for independently evaluating whether a product meets their particular application requirements, including compliance with electronic, electrical, environmental, and safety standards.

1.2 Customer Responsibility for Suitability Verification

Customers must conduct thorough technical verification and product testing before purchasing to ensure the product meets their application requirements.

Infinity Technology assumes no responsibility for the final performance, reliability, or applicability of the customer's end product. Customers are responsible for ensuring product compliance with applicable regulations and standards.

2. Customer Responsibility in Safety-Critical Applications

2.1 Special Considerations for High-Safety Applications

The failure of electronic components cannot be completely ruled out within the current state of technology, even when operating within specified parameters.

For applications involving personal safety, life support, or public security (such as medical equipment, aerospace, nuclear control, military systems, and transportation control), customers must:Implement redundant designs or other safety mechanisms to ensure that a single component failure does not result in catastrophic consequences.

Conduct comprehensive reliability assessments and failure analysis during the design phase.

Perform regular maintenance and testing to minimize the risk of failure.

2.2 Liability Exemption for Safety Risks

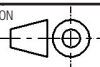
Customers must verify that the data sheets used for product selection are the latest versions. The most up-to-date product specifications can be downloaded from Http://www.cninf.cn. Infinity Technology assumes no liability for personal injury, property damage, or consequential losses resulting from improper customer design , misuse, or failure to implement appropriate safety measures.

3. Product Usage and Compliance

3.1 Technical and Environmental Compliance

Customers must comply with relevant legal and regulatory requirements when using Infinity Technology products, including but not limited to Electromagnetic Compatibility (EMC), Environmental Regulations (RoHS, REACH), and Safety Certifications (CE, UL).

Some products may contain restricted substances. For regulatory compliance information, customers should contact Infinity Technology's sales engineers or technical support team.

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3.2 Prohibited Uses

Without prior written consent from Infinity Technology, customers are prohibited from using its products in: Military, nuclear, or aerospace applications;
Medical implantable devices or life-sustaining medical equipment;
Applications that violate export control laws or trade restrictions.

4. Product Changes and Lifecycle Management

4.1 Product Specification Changes

Due to ongoing product improvements and technological advancements, Infinity Technology may modify product specifications, materials, or manufacturing processes.
All changes will be communicated via a Product Change Notification (PCN) in accordance with JEDEC standards. Customers can consult sales engineers or technical support for updates.

4.2 Product Discontinuation (EOL) Policy

Infinity Technology reserves the right to discontinue the production of certain products due to technological advancements or market adjustments.
A Product Termination Notification (PTN) will be issued in advance in compliance with JEDEC standards to provide customers with sufficient time to make necessary arrangements, including last-time-buy (LTB) opportunities.
Infinity Technology does not guarantee long-term availability of all products. Customers should consult sales engineers during the design phase to confirm long-term supply plans.

5. Intellectual Property Rights

5.1 Ownership of Intellectual Property

Any products developed by Infinity Technology based on customer requirements, development contracts, models, or design templates remain the exclusive intellectual property of Infinity Technology unless otherwise agreed in a separate contract.

This includes but is not limited to patents, copyrights, trademarks, and trade secrets.

5.2 No Implied Licensing

Infinity Technology does not grant any express or implied license under any intellectual property rights, including patents, copyrights, mask work rights, or trade secrets.

Customers are responsible for ensuring that their use of Infinity Technology's products does not infringe third-party intellectual property rights, especially when integrating them into broader technologies, software, or systems.

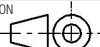
6. Order Terms and Contract Applicability

6.1 General Terms Applicability

Unless otherwise agreed in a separate contract, all orders are subject to Infinity Technology's latest General Terms and Conditions, available at [Http://www.cninf.cn](http://www.cninf.cn).

6.2 Order Confirmation and Modifications

Orders become valid only upon formal confirmation by Infinity Technology. Once confirmed, orders cannot be canceled or modified unless both parties mutually agree in writing.

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6.3 Force Mature Clause

Infinity Technology shall not be liable for delays or failures in product delivery caused by natural disasters, war, government regulations, supply chain disruptions, or other force majeure events. Customers shall have no right to claim compensation for such delays.

7. Liability Disclaimer

7.1 Limitation of Product Liability

Infinity Technology is solely responsible for ensuring the quality and compliance of its products. However, it is not liable for damages resulting from improper use, storage, installation, or operation by the customer.

Infinity Technology is not responsible for indirect losses, business interruptions, or lost profits resulting from product failures.

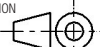
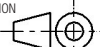
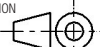
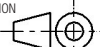
7.2 Customer Obligations and Responsibilities:

Customers must ensure that their procurement and use of Infinity Technology products comply with all applicable laws and regulations.

Customers must provide accurate product requirements and conduct thorough testing and validation before product implementation.

Final Statement

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