

Market Analysis and Future Outlook for Copper-Iron Co-Fired Inductors

Panoramic insight from source supply to market demand

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Feb.,2026

catalogue



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Global core manufacturer of copper-iron co-fired inductors

TYPE	manufacturer	ADVANTAFE	MARKET
International	Murata	Leading technology, automotive-grade quality, global presence	High-end markets for consumer electronics, automobiles, and AI
	TDK	Low noise, strong anti-interference capability, and high reliability	Communication, industrial, AI servers
	Taiyo Yuden	Excellent high-frequency characteristics and small size	Mobile devices, storage chips
national	Poco New Materials	Pioneer in copper-iron co-firing technology, core supplier to NVIDIA	AI server, GPU core power supply
	SUNLORD ELECTRONICS	The main force for domestic substitution, with high cost-effectiveness and large production capacity	Domestic AI servers, communications, and automobiles
	MICROGATE	High frequency, low impedance, compatible with liquid cooling, small package size	Google TPU, power module
	Tonamu Shares	Integrated co-firing, cost advantage,	Domestic AI chips and storage

Complete industry chain map of copper-iron co-fired inductors



Upstream: raw material supply

- Copper material suppliers provide basic materials such as high-purity electrolytic copper, while iron-based magnetic powder suppliers provide core magnetic materials



Midstream: Inductor manufacturing

- Platinum Tech, a domestic leading enterprise; Sunlord Electronics, a domestic leading inductor manufacturer; international giants Murata and TDK

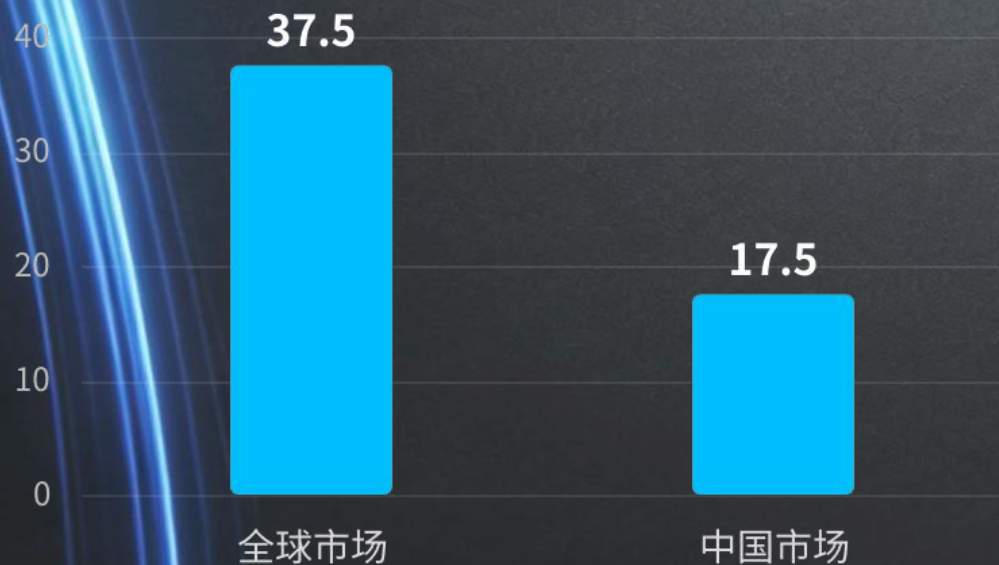


Downstream: Application terminals

- AI chip/solution providers: NVIDIA, Huawei Ascend, AMD; equipment manufacturers: Inspur, Huawei, Dell, Supermicro; end users: Google, Meta, Alibaba, Tencent

Global and Chinese Copper-Iron Co-Fired Inductor Market Size (2025)

市场规模 (亿元人民币)



KEY POINTS OF MARKET

- *High-proportion growth engine: The Chinese market, accounting for about 43%, is the fastest-growing region globally and has become a core driving force worldwide.*
- *Accelerated domestic substitution: With breakthroughs in local technology, the trend of domestic substitution is evident, and the market share of local manufacturers continues to increase.*

Core models and application scenarios of mainstream manufacturers

Manufacturer	P/N	L value	ISAT	T&R	APPLICATION	CUSTOMER
POCO	PK1008-AI100	100nH	60A	1008	NVIDIA H100/GB200 GPU core power supply	NVIDIA, INSPUR
SUNLORD	HTF1206-150M	150nH	50A	1206	Huawei Ascend 910B training card, server motherboard	Huawei, Cambricon
MICROGATE	MLF0603-68NJ	68nH	32A	0603	Google TPU, power module VRM	Google, MPS
MURATA	LQH1008-80NJ	80nH	80A	1008	AMD MI300 accelerator card, high-end storage	AMD, Intel
TDK	SLF1008-100M	100nH	65A	1008	AI server assists in power supply and signal filtering	Dell, Supermicro

Analysis of Driving Factors for Future Demand Growth

AI large model training

Next-generation models such as GPT-5 will further escalate the demand for computing power, driving a surge in the number of GPUs and AI servers.

GPU upgrade

The new generation of GPUs has higher power consumption, making the demand for high power density inductors more urgent, such as NVIDIA GB300 and Huawei Ascend 920.

Data center expansion

Global cloud providers continue to expand their AI data centers, with single cabinet power moving from 20kW to 50kW+.

Edge AI Computing

The popularization of AI applications on the edge side has increased the demand for miniaturized and high-performance inductors.

Acceleration of domestic substitution


The demand for self-reliance and controllability in the domestic AI industry chain is driving the rapid development of local inductor manufacturers, with market share expected to further increase.


Global Copper-Iron Co-Fired Inductor Market Size Forecast (2025-2030)

市场规模预测 (亿元人民币)




Key market insights

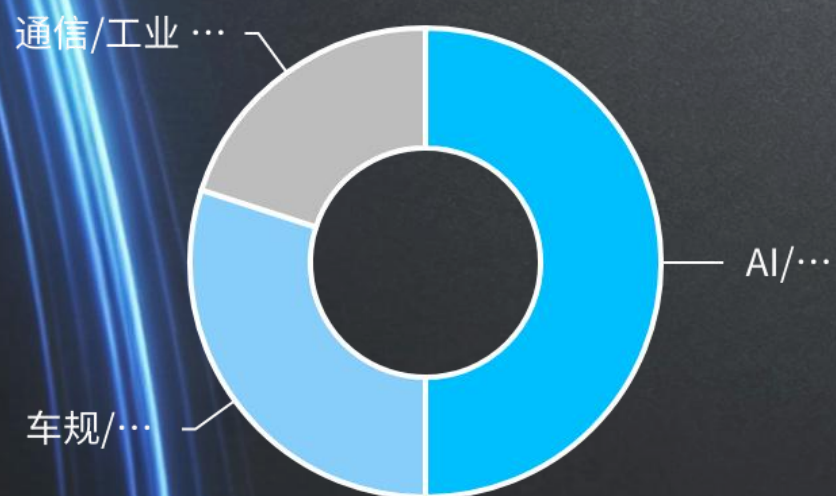
 The market size is expected to double from 3.75 billion to 7.5 billion in 2026, achieving leapfrog development. Annual compound growth rate of 40%.

 During the period from 2025 to 2030, the market will maintain a rapid expansion trend, with immense potential.

AI-driven data center

 The explosion in demand for AI computing power is the primary engine driving market growth.

Prediction of market segment share in 2026



Key market insights

AI data centers will become the largest application market for copper-iron co-fired inductors, accounting for more than half of the market, with a pivotal market position

50%

AI/Data center proportion

30%

Proportion of automotive standard products/new energy



THANK YOU

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