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CCS L19



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48071.1-2026

**Magnetic powder cores - Guidelines on dimensions and the
limits of surface irregularities - Part 1: General specification**

磁粉心 尺寸和表面缺陷极限导则 第1部分：总规范

(English Translation)

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Foreword

GB/T 48071.1-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the Ministry of Industry and Information Technology (Electronics).

Classification: ICS 29.100.10; CCS L19.

1 Scope

Magnetic powder cores are shaped components pressed from magnetic powder and used in inductors, chokes and power electronics. This is Part 1 of a multi-part series of guidelines on their dimensions and on the limits of surface irregularities. As the general specification, it provides the common framework that the later parts, each dealing with a particular core shape, are meant to be read alongside. It adopts an international standard.

It is relevant to manufacturers of magnetic powder cores, designers of inductors and power conversion components, incoming inspection and quality teams, and laboratories that check core geometry and surface condition. Buyers and suppliers can use a common guideline when agreeing on dimensional tolerances and acceptable surface imperfections.

The standard is recommended (GB/T) and therefore voluntary unless made binding by contract or by another document. It was issued on 28 August 2026 and takes effect on 1 March 2027.