

PCB Material Identification Guide (Professional Edition)

1. Identification Methods

To identify PCB materials in real-world boards, engineers often rely on a combination of labeling, appearance, and physical characteristics. Below are typical approaches:

Method	Description
Marking Codes	Look for printed or silkscreen codes such as 'FR4', 'CEM1', or 'MCPCB'.
Color Clues	FR-4 is usually green; Polyimide is amber; Ceramic boards are often white or off-white.
Flexibility Test	Polyimide boards are flexible; FR-4 and ceramic are rigid.
Thermal Conductivity	MCPCBs feel colder due to metal cores; ceramic boards feel dense and cool.