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an integrated circuit ic also known as a microchip computer chip or simply chip is a small electronic device made up of multiple interconnected electronic components such as transistors resistors and capacitors these components are etched onto a small piece of semiconductor material usually silicon integrated circuits ics are a keystone of modern electronics they are the heart and brains of most circuits they are the ubiquitous little black chips you find on just about every circuit board an integrated circuit ic commonly called a chip is made out of a semiconductor material called silicon in which small electronic components called transistors are formed within the silicon and then wired together with interconnects layered on top of the silicon surface an easy to understand introduction to integrated circuits why we need them how we make them and how they were invented in the 1950s integrated circuit an assembly of electronic components with miniature devices built up on a semiconductor substrate the resulting circuit is thus a small monolithic chip which may be as small as a few square millimeters the integrated circuit is the building block of almost all technology today it is a small square or rectangle of semiconductor material often silicon that contains electronic circuits laid down or grown to do computation or other tasks

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