abuse [V-T-U2] If you abuse something you treat it badly. używać niewłaściwie

- active element [N-COUNT-U4] An active element is a part of an electronics product that is able to create energy. element czynny
- activity [N-COUNT-U3] Activity is action or movement. aktywność, działanie
- age [N-COUNT-U2] The age of something is how long it has existed. wiek (np. produktu)
- alter [V-T-U15] To alter a sound is to change it. modyfikować, zmieniać
- amplify [V-T-U14] To amplify a signal is to increase the power of a signal. wzmacniać (np. sygnał)
- **amplitude** [N-UNCOUNT-U5] **Amplitude** is the distance between the middle and the bottom or top of an electrical wave. **amplituda**
- analog [ADJ-U5] If a signal is analog, it uses signals that change the voltage to form a pattern, which is similar to the data being sent. analogowy (sygnał)
- analog-to-digital converter [N-COUNT-U5] An analog-to-digital converter is a device that changes analog information into digital information. przetwornik analogowo-cyfrowy
- anode [N-COUNT-U8] An anode is the part of a diode where current flows in from the outside. anoda
- apart [ADJ-U3] If a piece of equipment is apart, it is in parts, or it is not together. w częściach, na części
- audio taper pot [N-COUNT-U12] An audio taper pot is another name for a log taper pot. potencjometr logarytmiczny
- **band** [N-COUNT-U8] The **band** on a diode is used to identify the terminal of the cathode. **pasek na diodzie oznaczający katodę**
- **base** [N-COUNT-U14] The **base** is the part of a transistor that is between the emitter and the collector. It changes the flow of current between the other two terminals. **baza tranzystora**
- bias [N-UNCOUNT-U14] Bias is a fixed voltage, applied to a device, in order to control its operation. napięcie wstępne, bias
- biasing element [N-COUNT-U8] A biasing element is a potential source used with diodes. układ biasujący
- **bipolar transistor** [N-COUNT-U14] A **bipolar transistor** is made up of three elements that are linked by two junctions. The three elements are the base, collector, and emitter. Transistors are used to amplify and/or switch electronic signals. tranzystor bipolarny
- blow [V-T-U9] To blow a fuse is to exceed the limit of the fuse. przeciążyć (o bezpieczniku)
- break down [PHRASAL V-U1] If something breaks down, it stops working suddenly. zepsuć się
- bridge rectifier [N-COUNT-U8] A bridge rectifier has four rectifiers arranged in a diamond-like configuration. prostownik mostkowy
- **capacitor** [N-COUNT-U6] A **capacitor** is a device made of two or more plates separated by an insulator, that is used to store electricity and discharge it back to a circuit. **kondensator**
- carbon composition resistor [N-COUNT-U11] A carbon composition resistor is a resistor made of carbon that is found in nearly every electronic device. rezystor węglowy
- cathode [N-COUNT-U8] A cathode is the part of a diode where current flows out from the inside. katoda
- ceramic [N-UNCOUNT-U7] Ceramic is a hard material made by heating clay at a high temperature. ceramika
- ceramic capacitor [N-COUNT-U6] A ceramic capacitor uses ceramic as its insulator, has a small range, and is found in radio circuits and bypass applications. kondensator ceramiczny
- charge up [PHRASAL V-U15] To charge up a battery, is to allow it to accumulate the power needed to run. naładować (np. baterię)
- chip [N-COUNT-U10] A chip is an integrated circuit which is used in computers, cell phones, and many other electronic devices. chip
- circuit [N-COUNT-U4] A circuit is the complete path of an electric current. obwód elektryczny
- closed [ADJ-U4] If a circuit is closed, the current can travel from one end of the power source to the other. A circuit needs to be closed in order to work. zamknięty (np. obwód)

coil [N-COUNT-U9] A coil is a strip of metal that is wound in a spiral. zwój

- collector [N-COUNT-U14] The collector is the semiconductor part of a transistor. After charge carriers leave the base, they flow into the collector. kolektor (w tranzystorze)
- color code [N-COUNT-U11] A color code is a series of colors that represent numbers that are used to state a resistor's resistance value in ohms. system identyfikacji za pomocą kolorów
- compensate [V-T-U15] To compensate, is to pay for or make up the difference for something. rekompensować, wyrównywać, równoważyć
- component [N-COUNT-U4] A component is an element in a circuit. część, element (np. obwodu)

conditions [N-COUNT PLURAL-U2] The conditions something is kept in is the environment it is used in. warunki contact [N-COUNT-U13] A contact is a device used to conduct current. gniazdko elektryczne

control [V-T-U13] To control equipment is to make it work or move in the way that you want it to. sterować, regulować (o urządzeniu)

corrosion [N-UNCOUNT-U1] Corrosion is damage to metal due to water. korozja

crystal [N-COUNT or UNCOUNT-U7] Crystal is very high quality clear glass. kryształ (szkło wysokiej jakości)

custom [ADJ-U10] If an electronic device is custom made, it is specially designed for a specific purpose. (zrobiony) na zamówienie, dostosowany (do potrzeb),

cycle [N-COUNT-U5] A cycle is one repetition of a waveform. cykl fali

cylinder [N-COUNT-U9] A cylinder object is shaped with circular ends and straight sides. walec

dead [ADJ-U3] If a wire or a piece of electronic equipment is dead, it is not working at all. rozładowany lub niedziałający

defective [ADJ-U10] If an electronic device is defective, it does not work properly. wadliwy, źle działający

depletion mode [N-UNCOUNT-U14] Depletion mode is an operating mode where reverse gate-source voltage is used to reduce the amount of free carriers in the channel. This makes the channel smaller and raises its resistance. Depletion mode transistors are "normally on" devices. kanał zubożony

detect [V-T-U15] To detect is to notice an object or a change in pattern. zauważyć, wykryć

digital [ADJ-U5] If something is digital, it uses signals that are based on the binary numbers of 0 and 1. Digital signals are easier to track and store than analog ones. cyfrowy

diode [N-COUNT-U8] A diode is a one way valve that allows current to flow through it. dioda

disintegrate [V-I-U11] To disintegrate is to fall apart or break down. rozpaść się

display [N-COUNT-U3] The display is the screen on an electronic device. wyświetlacz

dissipate [V-I or T-U11] To dissipate is to spread out or cause something to spread out. rozpraszać

double rectifier [N-COUNT-U8] A double rectifier has two rectifiers sharing one terminal. prostownik podwójny

- drain [N-COUNT-U14] A drain does the same job as a collector. It is found inside FET transistors. After charge carriers leave the gate, they flow into the drain. dren
- duty cycle [N-COUNT-U5] A duty cycle is the percentage of time spent in the "on" state in relation to the "off" state. współczynnik wypełnienia
- electrical stress [N-UNCOUNT-U1] Electrical stress is damage to a machine caused by a surge of power. uszkodzenie spowodowane przepięciem
- electrolytic capacitor [N-COUNT-U6] An electrolytic capacitor offers the highest capacity relative to its size, has a small range, and performs coupling and leafing functions. kondensator elektrolityczny
- eliminate [V-T-U3] To eliminate is to take something away so that it is not considered or chosen. wyeliminować, wykluczać

emitter [N-COUNT-U14] An emitter is the part of a transistor where charge-carrying holes originate. emiter

encased [ADJ-U7] If something is encased, it is covered completely by something else. wbudowany, osadzony w

- enhancement mode [N-UNCOUNT-U14] Enhancement mode is an operating mode where the channel is free of charge carriers when the gate source voltage is zero. Enhancement mode transistors are "normally off" devices. kanał wzbogacony
- evaluation [N-COUNT-U2] An evaluation is an examination of something, leading to a conclusion about the best action to take. ewaluacja, szacowanie
- exceed [V-T-U9] To exceed a limit is to go past an allowed amount or limit. przekroczyć (limit, granicę)

exhibit [V-T-U2] If a machine exhibits something, it shows something. pokazywać

- external [ADJ-U3] If something is external, it is on the outside, not on the inside. zewnetrzny
- failure [N-UNCOUNT-U1] Failure is when something cannot achieve its purpose. niepowodzenie
- fall time [N-COUNT-U5] The fall time is the amount of time it takes for the transition to fall from ninety percent to ten percent of its final height. czas opadania

fan [N-COUNT-U10] A fan is put inside a device to keep the chip from overheating. wiatrak chłodzący

- farad [N-COUNT-U6] A farad is the unit that measures the ability of a capacitor to store energy, known as capacitance. farad (jednostka pojemności elektrycznej)
- filter [N-COUNT-U7] A filter is a device that removes unwanted things that pass through it. filtr

frequency [N-UNCOUNT-U5] **Frequency** is the amount of cycles that take place in one second of time. **częstotliwość fuse** [N-COUNT-U9] A **fuse** protects a circuit against current surges. **bezpiecznik**

gang [V-T-U12] To gang components is to arrange them into a group or a set. ustawić

gate [N-COUNT-U14] A **gate** does the same job as a base. It is the controlling terminal that changes the flow of current between the source and the drain. **bramka**

generate [V-T-U7] To generate something is to produce that thing. generować, tworzyć

- gradual [ADJ-U2] If an action is gradual, it happens slowly over a long period of time. stopniowy
- graphics card [N-COUNT-U14] A graphics card is a circuit board that controls the images that come on a computer screen and generates 3D images. karta graficzna
- harmonic energy [N-UNCOUNT-U5] Harmonic energy is sounds that are made at multiples of the same frequency as a base noise. energia harmoniczna
- heat stress [N-UNCOUNT-U1] Heat stress occurs when the power supply generates a lot of heat when it powers a large piece of equipment. The heat causes damage. uszkodzenie spowodowane przegrzaniem

hiss [N-COUNT-U3] A hiss is a harsh s-sounding noise. syk

holder [N-COUNT-U9] A holder is something that contains a fuse. oprawka bezpiecznika

- hot side [N-COUNT-U9] The hot side is where wires that are not grounded are located. strona "gorąca" (gdzie przewody nie są uziemione)
- hum [N-COUNT-U3] A hum is a deep, constant vibrating sound. buczenie
- idle [ADJ-U2] If a device is idle, it is turned on, but nobody is using it. bezczynny (o urządzeniu)
- incoming [ADJ-U15] If a current is an incoming current, it is running towards the object, not away from it. przychodzący
- in common [ADJ PHRASE-U2] If two things have something in common, they are similar in some way. wspólny (np. cecha)
- in operation [ADJ PHRASE-U2] If something is in operation, it is currently working. działający
- in parallel [ADJ PHRASE-U4] If a circuit is in parallel, several components are joined across the power source's two terminals. w połączeniu równoległym
- in series [ADJ PHRASE-U4] If a circuit is in series, the current has to pass through a first circuit component, before it is able to pass through a second or third one. w połączeniu szeregowym
- insulator [N-COUNT-U6] An insulator is a material that does not conduct electricity. izolator
- interchange [V-T-U11] To interchange things is to have each thing replace the position or function of the other(s). wymieniać, zamieniać
- isolate [V-T-U12] To isolate something is to separate it from other things. izolować
- junction field effect transistor (JFET) [N-COUNT-U14] A junction field effect transistor (JFET) is a type of transistor that is made up of three elements. These elements are called the gate, the source and the drain. The JFET does not need much signal current in order to turn on. tranzystor polowy złączowy
- large scale integrated chip (LSI) [N-COUNT-U14] A large scale integrated chip (LSI) is an integrated circuit that contains thousands of semiconductors. układ scalony o dużej skali integracji
- lead [N-UNCOUNT-U7] A lead is a metal prong used to mount a device to a circuit board. pin, nóżka (np. w płycie obwodu)
- leg [N-COUNT-U4] A leg is a section of an electrical circuit. przewód pod napięciem w obwodzie elektrycznym
- light-emitting diode (LED) [N-COUNT-U8] A light-emitting diode (LED) emits light when a current passes through it. dioda LED
- limit [V-T-U11] To limit something is to prevent something from increasing beyond a certain point. ograniczać
- **linear regulator** [N-COUNT-U15] A **linear regulator** controls outgoing voltage coming from a less stable inbound voltage, is inexpensive, and produces better sound than a switching regulator. **regulator liniowy**
- **linear taper pot** [N-COUNT-U12] A **linear taper pot** is a pot that provides an even change in resistance for each degree of rotation from end to end. **potencjometr liniowy**
- **log taper pot** [N-COUNT-U12] A **log taper pot** is a pot that uses a logarithmic resistance curve to adjust sound volume so that it appears to change at a constant rate. **potencjometr logarytmiczny**
- **malfunctioning** [ADJ-U3] If a piece of equipment is **malfunctioning**, it is not working properly. **źle działający manufacturer** [N-COUNT-U2] A **manufacturer** is a company or person that makes products. **producent**
- mark [N-COUNT-U6] A mark is a letter, word, or symbol printed on or etched into something. symbol, znak

maximum [N-COUNT-U8] The maximum is the highest amount or degree that is possible. maksimum

mechanical wear [N-UNCOUNT-U1] Mechanical wear is when products stop working because moving parts break. zużycie mechaniczne

- metal oxide resistor [N-COUNT-U11] A metal oxide resistor is a type of resistor with a tighter tolerance than carbon or wire-wound resistors. rezystor metalowo-tlenkowy
- metal-oxide semiconductor field-effect transistor (MOSFET) [N-COUNT-U14] A metal-oxide semiconductor field-effect transistor (MOSFET) is a type of transistor that is like a JFET. However, it takes even less signal current to turn on a MOSFET. tranzystor polowy MOSFET
- microscopic [ADJ-U10] If an object is microscopic, it is too small to see with the naked eye. mikroskopijny
- mortality [N-UNCOUNT-U1] Mortality is the fact that things die. It is usually used to talk about people, but can also be used to describe the fact that some products in a batch will fail. śmiertelność, umieralność; wadliwość produktu
- normally closed [ADJ-U13] If something is normally closed, it means that the contacts are touching, even when the relay or switch is in the "off" position. Electricity can pass between the contacts. normalnie zamknięty (o styku)
- **normally open** [ADJ-U13] If something is **normally open**, it means that the contacts do not touch when the relay or switch is in the "off" position. Electricity cannot pass between the contacts. **normalnie otwarty (o styku)**
- **open** [ADJ-U4] If a circuit is **open**, there is a break in it that stops current from flowing from one end of the power source to the other. **otwarty** (**np. obwód**)
- opposition [N-UNCOUNT-U11] Opposition is an action done to resist or stop something else. sprzeciw, opór, opozycja
- origin [N-COUNT-U4] An origin is the place where something starts to exist. In a circuit, the origin is the place where current comes from. pochodzenie
- output [N-UNCOUNT-U15] Output is the voltage, sound, or anything else that a speaker or other object produces. sygnał, moc wyjściowa
- passage [N-UNCOUNT-U13] Passage is movement through, past, or over a location. przejście (np. przez coś, obok czegoś)
- peak inverse voltage (PIV) [N-COUNT-U8] The peak inverse voltage (PIV) refers to the highest value of the input voltage that a diode can handle before allowing it to pass. szczytowe napięcie wsteczne
- phase relationship [N-COUNT-U5] A phase relationship is the relative position in time of two different signals. It is shown in degrees. relacja fazowa
- physical stress [N-UNCOUNT-U1] Physical stress is damage caused to a machine by the way it is treated. uszkodzenia fizyczne
- piezoelectric effect [N-COUNT-U7] The piezoelectric effect is when pressure is applied to a material and it results in the production of electricity. The same materials vibrate when subjected to electricity. efekt piezoelektryczny
- plastic capacitor [N-COUNT-U6] A plastic capacitor uses polystyrene as its insulator, has excellent stability, and performs bypass and coupling functions. rezystor polimerowy
- plate [N-COUNT-U6] A plate is flat piece of metal or other material. płytka
- pole [N-COUNT-U13] A pole is a set of contacts. biegun
- **potentiometer (pot)** [N-COUNT-U12] A **potentiometer (pot)** is an electronic component, typically with three leads, that varies how much current flows through a circuit, and can be used to adjust analog signals (such as volume and power supply). **potencjometr**
- power surge [N-COUNT-U1] A power surge is a sudden, great increase in the power supply. skok napięcia
- protect [V-T-U9] To protect something is to keep it from being harmed or damaged. chronić
- pulse [N-COUNT-U8] A pulse is a short and sudden change in a current. impuls
- **pulse-width modulation (PWM)** [N-UNCOUNT-U15] **Pulse-width modulation (PWM)** is a method that is used to control the power that is going to an electrical device. **modulacja szerokości impulsów**
- **quartz** [N-UNCOUNT-U7] **Quartz** is a form of silicon that occurs in nature and is used in making watches and electronics. kwarc
- range [N-COUNT-U6] A range is a series of numbers bounded on either side by a highest and lowest amount. zakres
- rating [N-COUNT-U6] A rating is the upper limit of voltage a capacitor can handle before failing. maksymalne napięcie kondensatora
- rectangular [ADJ-U9] If an object is rectangular, it has four right angles. prostokątny
- rectifier [N-COUNT-U8] A rectifier is a large diode that forces an alternating current to become direct. prostownik
- **rectify** [V-T-U4] To **rectify** is to correct a problem. When current is rectified, it is changed into a current with one polarity. sprostować (np. nieprawdę), prostować (o prądzie)
- regulate [V-T-U15] To regulate a current is to control it. regulować
- **relay** [N-COUNT-U13] A **relay** is a switch that is controlled by another electrical circuit. Many relays use an electromagnet. przekaźnik

- remote control [N-COUNT-U3] A remote control is a device that controls a machine from a distance. pilot zdalnego sterowania
- represent [V-T-U11] To represent is to be the symbol for something. symbolizować
- **reservoir** [N-COUNT-U4] A **reservoir** is something that can store energy. It is used to keep voltage even. **zbiornik w** maszynie
- resistance [N-UNCOUNT-U1] Resistance is a force that stops something else from moving effectively. opór
- **resistance curve** [N-COUNT-U12] A **resistance curve** is a graphic representation of how a pot's resistance value changes as another variable changes. **krzywa oporu**
- resistor [N-COUNT-U11] A resistor is a component that limits the flow of electricity in an electronic device. rezystor, opornik
- resonator [N-COUNT-U7] A resonator is a device that oscillates at certain frequencies. rezonator, wzmacniacz
- reversed polarity [N-UNCOUNT-U1] Reversed polarity is when an electric current runs through a machine the wrong way. odwrócona polaryzacja
- **rheostat** [N-COUNT-U12] A **rheostat** is a pot with a wiper and a single lead connecting to the resistive element. **reostat**
- rise time [N-COUNT-U5] The rise time is the amount of time it takes for the transition to rise from ten percent to ninety percent of its final height. czas narastania
- rotary [ADJ-U12] If something is rotary, it can be rotated around an axis. obrotowy
- sawtooth wave [N-COUNT-U5] A sawtooth wave is a type of wave that forms a pattern like that found on the blade of a saw. fala piłokształtna
- scramble [V-T-U3] To scramble is to jumble or distort something. poprzestawiać, pomieszać
- series pass transistor [N-COUNT-U15] A series pass transistor converts inbound voltage into a lower constant voltage. tranzystor szeregowy
- shaft [N-COUNT-U12] A shaft is a straight rod that is typically used to transmit motion and torque. wał
- short circuit [N-COUNT-U4] A short circuit is when current skips over part of the circuit and travels straight to the other end of the power source. zwarcie
- shorted [ADJ-U4] If something is shorted, it causes current to skip over part of a circuit and travel to the other end of the power source. zwarty
- shut down [PHRASAL V-U13] To shut down is to stop working. wyłączyć się
- signal [N-COUNT-U5] An electronic signal is a signal that carries information between two pieces of electronic equipment. sygnał
- silicon [N-UNCOUNT-U10] Silicon is a natural, non-metallic element that is used to make many electronic devices. krzem
- **sine wave** [N-COUNT-U5] A **sine wave** is a type of smooth wave that has a pure tone. It can be used to show the strength of an alternating current. **fala sinusoidalna**
- slab [N-COUNT-U7] A slab is a piece of stone or other hard material that is flat and usually thick. plyta (np. kamienna)
- slice [N-COUNT-U7] A slice is a flat piece of material cut from a larger piece of that material. plaster (odcięta część większej całości)
- slow-blow fuse [N-COUNT-U9] A slow-blow fuse demands a high start-up current and has a time-delay. bezpiecznik wolny
- small scale integrated chip (SSI) [N-COUNT-U10] A small scale integrated chip (SSI) is a chip that contains only a few semiconductors. układ scalony małej skali integracji
- **source** [N-COUNT-U14] A **source** does the same job as an emitter. It is the part of a transistor where charge-carrying holes originate. **tranzystorowe źródło prądowe**
- spring [N-COUNT-U9] A spring is a strip of steel that recovers its shape when compressed. sprężyna
- square wave [N-COUNT-U5] A square wave is a type of wave made by repeatedly and quickly turning a signal all the way on and then all the way off. fala kwadratowa
- stage [N-COUNT-U4] A stage is a part of an electronics product that does one job. część urządzenia wykonująca dane zadanie
- substrate [N-COUNT-U12] A substrate is a base layer supporting a circuit. podłoże (obwodu) sudden [ADJ-U2] If an action is sudden, it happens very quickly. nagły
- surface-mount [N-COUNT-U9] A surface-mount fuse attaches to the flat surface of an object. bezpiecznik do montażu powierzchniowego
- switch [N-COUNT-U13] A switch is a device used to allow or prevent the passage of current. przełącznik

- switching regulator [N-COUNT-U15] A switching regulator controls outgoing voltage that occurs from a less stable inbound voltage. It is more diverse than a linear regulator, and is better quality. regulator impulsowy
- tantalum capacitor [N-COUNT-U6] A tantalum capacitor uses ceramic as its insulator, has a small range, and performs filtering and bypass functions in the presence of high frequencies. kondensator tantalowy
- tap [V-T-U3] To tap is to hit something lightly with a finger. stukać (np. palcem)
- terminal [N-COUNT-U12] A terminal is a point where a conductor from an electrical device connects to external circuits. końcówka, zacisk, przyłącze
- throw [N-COUNT-U13] A throw is a position that a switch can be in. pozycja przełącznika
- transistor [N-COUNT-U10] A transistor is a semiconductor used in electronics to function as a signal enhancer or a switch. transystor
- trimmer capacitor [N-COUNT-U6] A trimmer capacitor is a capacitor with a rotating plate and a fixed insulator that performs frequency adjustments for tuned circuits and oscillators. kondensator trymer
- trimpot [N-COUNT-U12] A trimpot is a small linear taper pot used to perform internal circuit adjustments such as in power supply. potencjometr trymer
- unconnected [ADJ-U13] If something is unconnected, it is not linked to a system. rozłączony, niepołączony

valve [N-COUNT-U8] A valve is a device that controls the flow of something. zawór

- variety [N-COUNT-U13] A variety is a group or amount of people or objects that are all different. różnorodność
- vibrate [V-I-U7] To vibrate is to shake back and forth in regular movements that are short and quick. wibrować
- **voltage regulator** [N-COUNT-U15] A **voltage regulator** compensates for excess and spare voltage by dispersing it evenly. **regulator napięcia**
- warm up [PHRASAL V-U3] To warm up a machine is to run it until it is at the right temperature to work properly. rozgrzać (urządzenie)
- waveform [N-COUNT-U5] A waveform is a signal, as shown on a graph. fala
- wear out [PHRASAL V-U1] If something wears out, it is used so much that eventually it doesn't work as well, or it stops working. zużywać się
- wiper [N-COUNT-U12] A wiper is a movable metal contact that touches the resistive element. When it is turned it increases resistance relative to one outer lead, while decreasing it relative to the other. szczotka
- wire [V-T-U4] To wire something is to link together long, thin threads of metal inside a piece of electrical equipment. okablować
- wire-wound resistor [N-COUNT-U11] A wire-wound resistor is a type of resistor with a wire coiled around it, that can dissipate more heat than a carbon composition resister, but is not suitable for a high-frequency circuit, as they have some inductance. rezystor drutowy
- zener diode [N-COUNT-U15] A zener diode allows a current to move forward as well as backward when the voltage is higher than a certain value. dioda Zenera