

# Parts Export

Generated: 2026-07-26 08:27:13

Total Parts: 49

| Image                                                                               | Part Number | Name                 | Category         | Manufacturer                         | Description                                                                                                                                                                                                                                                                                                                                       | Specification                                                                                                                                                                                                                                                                                                                                                 | Tags                                                                                                       |
|-------------------------------------------------------------------------------------|-------------|----------------------|------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|    | COC-00003-A | Hot Glue Sticks 7 mm | CO - Consumables | Stanley, Surebonder                  | The Thermoplastic Adhesive Glue Sticks are used with hot glue guns for crafting, DIY projects, electronics assembly, and repairs. They melt quickly to form a strong bond on materials like plastic, wood, paper, and fabric. They are commonly used in workshops, prototyping, and educational projects for fast and durable adhesion.           | Glue Stick Diameter: 7mm Melting Temperature: 120°C – 180°C Compatibility: 7mm Mini Glue Guns Stick Length: 100mm – 300mm                                                                                                                                                                                                                                     | Hot Melt Adhesive • hot glue stick • glue gun stick • adhesive stick • 7mm glue stick • craft glue         |
|    | COC-00006-A | Sandpaper Sheet      | CO - Consumables | 3M, Norton Abrasives                 | The Abrasive Sandpaper Sheet is used for smoothing, polishing, finishing, and surface preparation. It works on wood, metal, plastic, and other materials. It is commonly used in DIY projects, fabrication, electronics enclosures, and industrial finishing.                                                                                     | Product Type: Abrasive Sandpaper Sheet Abrasive Material: Aluminum Oxide / Silicon Carbide Grit Range: 60 – 3000 Grit Sheet Size: Standard 9x11 Inch                                                                                                                                                                                                          | sandpaper • abrasive paper • sanding sheet • polishing paper • surface finishing                           |
|    | COE-00001-B | AA Battery           | CO - Consumables | Duracell, Energizer, Panasonic, Sony | The AA Battery is a standard portable power source used in electronic devices, sensors, toys, remote controls, robotics, and embedded systems. It provides stable low-voltage power for small electronics and is widely used in DIY projects, educational kits, and consumer devices.                                                             | Battery Type: AA Cylindrical Battery Output Voltage: 1.5V Chemistry: Alkaline / NiMH / Lithium Capacity: 1800mAh – 3000mAh Diameter: 14.5mm Length: 50.5mm                                                                                                                                                                                                    | Alkaline Battery • AA battery • cylindrical battery • rechargeable battery • portable power • battery cell |
|    | COE-00001-C | Panasonic Battery    | CO - Consumables | Panasonic                            | The Panasonic CR2025 is a 3V lithium coin cell battery designed for compact electronic devices. It offers long-lasting, stable power and is commonly used in key remotes, watches, calculators, medical devices, and small electronics.                                                                                                           | Battery Type: Lithium Coin Cell Battery Size: CR2025 Chemistry: Lithium Manganese Dioxide (LiMnO?) Nominal Voltage: 3 V Nominal Capacity: 165 mAh Diameter: 20 mm Height: 2.5 mm Termination Style: Pressure Contacts Operating Temperature: –30°C to +60°C Weight (Unit): 2.3 g Shipping Weight: 0.008 kg Shipping Dimensions: 9.2 × 7.5 × 1 cm              | CR2025 Battery • 3V Coin Cell • Lithium Battery • Panasonic Battery • Button Cell                          |
|  | COE-00002-A | Hookup Wire Kit      | CO - Consumables | Plusivo                              | The Assorted 30AWG Silicone Hookup Wire Kit is a flexible wiring set for electronics and prototyping. It includes multiple colored wires, heat shrink tubes, and accessories for easy circuit building. It is widely used in Arduino projects, robotics, and embedded system wiring.                                                              | Brand: Plusivo Item Type: Hookup Wire Kit Wire Gauge: 30 AWG Conductor Material: 0.08 mm Tinned Copper (Stranded) Insulation Material: Silicone Rated Voltage: 300 V Rated Temperature: 200°C Wire Length: 20 meters per color (6 colors) Total Wire Length: 120 meters Weight: 285 g Shipping Weight: 0.27 kg Shipping Dimensions (L × W × H): 15 × 7 × 7 cm | Hookup Wire • Silicone Wire • Stranded Wire • 30AWG • Prototyping • Electronics                            |
|  | COE-00003-A | Hook-Up Wire         | CO - Consumables | Alpha Wire, Belden, Adafruit         | The Single Strand Hook-Up Wire is an electrical conductor used for circuit connections in prototyping, PCB wiring, robotics, and embedded systems. It provides reliable conductivity and flexible routing for low-voltage applications. It is commonly used in Arduino projects, DIY electronics, control circuits, and signal/power connections. | Wire Type: Single Strand Hook Up Wire Conductor Material: Copper Wire Gauge: 22AWG – 26AWG Rated Voltage: 300V Temperature Rating: 80°C                                                                                                                                                                                                                       | Breadboard Wire • Jumper Wire • hook up wire • single core wire • copper wire • PCB wire                   |

| Image                                                                               | Part Number | Name           | Category               | Manufacturer                                          | Description                                                                                                                                                                                                                                                                                                                                                                             | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tags                                                                      |
|-------------------------------------------------------------------------------------|-------------|----------------|------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
|    | EDD-00002-A | Red LED        | ED - Electronic Device | Generic                                               | Red Light Emitting Diode (LED) used as a visual indicator in electronic circuits and projects. Features a 10mm DIP package that emits bright red light with low power consumption and long operating life. Ideal for TVs, monitors, telephones, computers, status indicators, prototyping, educational experiments, DIY electronics, and general-purpose electronic applications.       | Case/Package: DIP Diameter (mm): 10 Mounting Type: Through Hole Lens Appearance: Transparent Color: Red Forward Voltage (V): 2 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Dimensions (L × W × H): 1 × 1 × 1 cm                                                                                                                                                                                                                                                                                                                                                                                                | Red LED • Indicator LED • Through Hole LED • DIP LED • 10mm LED           |
|    | EDD-00002-B | Green LED      | ED - Electronic Device | Generic                                               | Green Light Emitting Diode (LED) used as a visual indicator in electronic circuits and projects. Features a 3mm round transparent package that emits bright green light with low power consumption and long service life. Ideal for TVs, monitors, telephones, status indicators, DIY electronics, prototyping, educational experiments, and general-purpose electronic applications.   | Case/Package: DIP Diameter (mm): 8 Mounting Type: Through Hole Lens Appearance: Transparent Color: Green Forward Voltage (V): 3.5 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Dimensions (L × W × H): 1 × 1 × 1 cm                                                                                                                                                                                                                                                                                                                                                                                             | Indicator LED • Through Hole LED • DIP LED • Green LED • 8mm LED          |
|    | EDD-00002-C | Yellow LED     | ED - Electronic Device | Generic                                               | Yellow Light Emitting Diode (LED) used as a visual indicator in electronic circuits and projects. Features a 10mm DIP package with a transparent body that emits bright yellow light. Ideal for TVs, monitors, telephones, computers, status indicators, control panels, prototyping, educational experiments, DIY electronics, and general-purpose electronic applications.            | Case/Package: DIP Diameter (mm): 10 Mounting Type: Through Hole Lens Appearance: Transparent Color: Yellow Forward Voltage (V): 3.2 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Dimensions (L × W × H): 1 × 1 × 1 cm                                                                                                                                                                                                                                                                                                                                                                                           | Indicator LED • Through Hole LED • DIP LED • 10mm LED • Yellow LED        |
|    | EDD-00002-E | White LED      | ED - Electronic Device | ED Series / Generic                                   | White Light Emitting Diode (LED) used as an indicator or illumination source in electronic circuits and projects. Features a 3mm DIP package with a transparent housing that emits bright white light. Ideal for display panels, electronic devices, status indicators, DIY electronics, prototyping, educational experiments, and professional electronic applications.                | Manufacturer: ED Series / Generic Compatible – White LED (3mm, DIP Type) Case/Package: DIP Mounting Type: Through Hole Lens Appearance: Transparent Color: White Forward Voltage (V): 2.8 Forward Current (mA): 30 Shipping Weight: 0.001 kg Shipping Weight: 1 × 1 × 1 cm                                                                                                                                                                                                                                                                                                                                                     | Indicator LED • Through Hole LED • White LED • 3mm LED • DIP LED          |
|   | EDD-00003-A | RGB LED Module | ED - Electronic Device | ED Series / XINGLIGHT, XINGLIGHT                      | 5mm RGB LED module with a common cathode configuration and transparent lens for vibrant multi-color illumination. Combines red, green, and blue LEDs in a single through-hole package, enabling a wide range of colors through color mixing. Ideal for indicator panels, Arduino projects, DIY electronics, decorative lighting, visual feedback systems, and educational applications. | Manufacturer: XINGLIGHT Model No.: XL-A524SURSYGC Package: Plugin, D = 5mm Forward Current (mA): 20 Color Temperature: - Peak Wavelength (nm): 640 (Red) 572 (Green: Yellow) Luminous Intensity (mcd): 600 (Red) 550 (Green: Yellow) Lens Color: Colorless Transparent Diode Configuration: Common Cathode Wavelength – Dominant (nm): 635–640 (Red) 565–575 (Green: Yellow) Operating Temperature (°C): -20 ~ +85 Illumination Color: Red, Green-Yellow Viewing Angle: 30° Lamp Holder Type: 5mm Round Head Power (mW): 50 Forward Voltage (Vf): 2.3V (Red) 2.4V (Green: Yellow) Mounting Type: Through Hole Compliance: RoHS | RGB LED • 5mm LED • Common Cathode LED • Indicator LED • Through Hole LED |
|  | EDD-00003-B | RGB LED Module | ED - Electronic Device | Jameco ValuePro, Jameco ValuePro, Adafruit Industries | 5mm high-brightness RGB LED module with a common anode configuration. Emits red, green, and blue light, allowing a wide range of colors through color mixing. Suitable for status indicators, Arduino projects, decorative lighting, educational experiments, displays, and DIY electronics. Easy to interface with microcontrollers for dynamic lighting and visual effects.           | Manufacturer: Generic Model Type: Common Anode RGB LED Package: 5mm Round (Clear Lens) Color: Red, Green, Blue Configuration: Common Anode Brightness: High Current Consumption: Low Operating Voltage: 2.0–3.2V (per color) Forward Current (mA): 20 (per channel) Power Efficiency: High Luminous Output, Low Heat Material: Epoxy Resin, Gold Wire Leads Mounting Type: Through Hole Item Size: 5mm Shipping Weight: 0.001 kg Shipping Dimensions (L × W × H): 1 × 1 × 1 cm                                                                                                                                                 | RGB LED • 5mm LED • Indicator LED • Through Hole LED • Common Anode LED   |

| Image                                                                               | Part Number    | Name               | Category               | Manufacturer                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                                                | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Tags                                                                                                           |
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|    | EDD-00005-B    | Voltage Regulator  | ED - Electronic Device | Texas Instruments, STMicroelectronics, ON Semiconductor, Fairchild Semiconductor | The LM7812 Voltage Regulator is a fixed-output regulator that provides a stable 12V DC supply from a higher input voltage. It includes built-in thermal overload and short-circuit protection for safe operation. It is widely used in power supplies, robotics, Arduino projects, communication modules, and embedded systems.                                                                            | Device Type: Linear Voltage Regulator Output Voltage: 12V DC Package Type: TO-92 Input Voltage Range: 14V – 30V Output Current: Up to 100mA                                                                                                                                                                                                                                                                                                                                 | voltage regulator • TO-92 regulator • linear regulator • power supply IC • LM7812 • 12V regulator              |
|    | EDK-00004-A    | Resistor Kit       | ED - Electronic Device | Generic                                                                          | This 600-piece metal film resistor kit includes 30 common values with 20 pieces each. It features 1/4W rating and 1% tolerance for accurate and reliable performance. It is commonly used in Arduino projects, prototyping, repairs, and DIY electronics.                                                                                                                                                  | Manufacturer: Generic Model Name: 600 pcs. Metal Film Resistor Assorted kit – 30 Kinds Power Rating: 1/4W Tolerance (%): 1 Material Type: Metal Film Package Type: Axial Lead Temperature Stability: High (Better than Carbon Film) Noise Level: Low Frequency Suitability: Suitable for RF and High-Frequency Applications Number of Values: 30 Total Quantity: 600 pcs Quantity per Value: 20 pcs Shipping Weight: 0.001 kg Shipping Dimensions (L × W × H): 1 × 1 × 1 cm | Ideal for prototyping • learning resistor color codes • testing • and circuit experiments.                     |
|    | EDM-00003-A    | DPDT Toggle Switch | ED - Electronic Device | C&K, E-Switch, Omron                                                             | The DPDT (Double Pole Double Throw) Toggle Switch is a mechanical switch used to control two separate circuits and switch each between two output paths. It is commonly used for polarity reversal, motor direction control, signal routing, power selection, automation, robotics, and DIY electronics projects.                                                                                          | Switch Type: DPDT (Double Pole Double Throw) Number of Pins: 6 Pins Rated Voltage: 125V – 250V AC / 12–30V DC Rated Current: 3A – 6A                                                                                                                                                                                                                                                                                                                                        | toggle switch • DPDT switch • 6 pin switch • polarity reversing switch • control switch                        |
|    | EDM-00004-A    | Alligator clips    | ED - Electronic Device | Pomona Electronics, Mueller Electric, E-Z-Hook, Klein Tools                      | The Alligator Clips are spring-loaded metal clips used for temporary electrical connections in testing, prototyping, and electronics projects. They provide quick, secure contact with wires, batteries, sensors, and circuit terminals without soldering. Widely used in Arduino, robotics, educational kits, and troubleshooting applications.                                                           | Clip Type: Alligator / Crocodile Clip Material: Nickel Plated Steel Opening Width: 5mm – 15mm Electrical Rating: Low Voltage (                                                                                                                                                                                                                                                                                                                                              | alligator clip • crocodile clip • test clip • battery clip • jumper clip • electronics clip • prototyping clip |
|    | EDR-00001-330Z | Resistor - 330 Ohm | ED - Electronic Device | Yageo, Vishay, KOA Speer, TE Connectivity, Generic                               | The 330 Ohm 0.25W Metal Film Resistor is a passive component used to limit current and control voltage in electronic circuits. It offers stable, accurate resistance with low noise and is commonly used in LED circuits, Arduino projects, and embedded systems.                                                                                                                                          | Series: – Resistance (Ohm): 330 Tolerance (%): 1 Power Rating: 250mW Composition: Metal Film Temperature Coefficient: +/-50ppm/°C Operating Temperature (°C): -40 ~ 150 Case/Package: Axial Length (mm): 6 Mounting Type: Through Hole Shipping Weight: 0.001 kg Shipping Dimensions: 1 × 1 × 1 cm                                                                                                                                                                          |                                                                                                                |
|  | EDT-00004-A    | Speaker            | ED - Electronic Device | CUI Devices, PUI Audio, Sobotron, Visaton                                        | The Speaker is an electronic audio output device used to convert electrical audio signals into audible sound. It is commonly used in embedded systems, multimedia devices, alarms, robotics, IoT applications, and educational projects. The module can reproduce tones, voice, music, and alert sounds, making it suitable for audio feedback, notifications, and sound generation in electronic systems. | Operating Voltage: 3V – 12V Speaker Type: Dynamic Speaker Impedance: 4? / 8? Power Rating: 0.5W – 3W Frequency Range: 300Hz – 20KHz                                                                                                                                                                                                                                                                                                                                         | Sound Module • speaker • audio output • buzzer speaker • multimedia speaker • embedded audio device            |
|  | EDT-00007-A    | Flex Sensor        | ED - Electronic Device | Spectra Symbol, SparkFun, Adafruit, Interlink Electronics, Generic               | The 2.2? Flex Sensor is a bend-detecting resistor that changes resistance when flexed. It is used to measure bending or motion and is commonly used in robotics, wearables, gaming controllers, and motion-sensing applications.                                                                                                                                                                           | Bend Resistance: minimum 20K Ohms ±30% (@ 180° pinch bend) Flat Resistance: 10K Ohms ±30% Flex length: 2.2 inch (5.6 cm) Power: 0.5 Watts continuous Length: 7 cm                                                                                                                                                                                                                                                                                                           | Electronics • flex sensor • bend sensor • sensor • analog • resistance • wearable                              |

| Image                                                                               | Part Number | Name            | Category                           | Manufacturer                                                                            | Description                                                                                                                                                                                                                                                                                                                                                                                                   | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tags                                                                                                                                                                           |
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| No Image                                                                            | EMA-00002-A | OLED Display    | EM - Electronic-Electrical Modules | Solomon Systech, SparkFun, DFRobot                                                      | The SSD1306 0.96-inch I2C OLED Display is a compact monochrome graphical display module widely used with Arduino, ESP32, Raspberry Pi, and other microcontrollers. It features a 128×64 pixel resolution and uses the SSD1306 OLED driver IC with an I2C communication interface. The display provides high contrast, low power consumption, and is ideal for showing text, graphics, sensor data, and menus. | Product Type: OLED Display Module Display Size: 0.96 inch Driver IC: SSD1306 Resolution: 128 × 64 Pixels Operating Voltage: 3.3V – 5V DC                                                                                                                                                                                                                                                                                                                                                                      | SSD1306 OLED Display • 0.96 OLED Module • I2C OLED Display • OLED Screen Module                                                                                                |
|    | EMA-00003-E | Coin Battery    | EM - Electronic-Electrical Modules | Panasonic, Maxell, Energizer, Sony                                                      | The CR2032 3V Lithium Coin Battery is a compact, long-lasting power source used in small electronic devices like watches, calculators, remotes, toys, and embedded systems. It provides a stable 3V output and is widely used in low-power applications due to its long shelf life and reliability.                                                                                                           | Battery Type: Lithium Coin Cell Battery Size: CR2025 Chemistry: Lithium Manganese Dioxide (LiMnO?) Nominal Voltage: 3 V Nominal Capacity: 165 mAh Diameter: 20 mm Height: 2.5 mm Termination Style: Pressure Contacts Operating Temperature: –30°C to +60°C Weight (Unit): 2.3 g Shipping Weight: 0.008 kg Shipping Dimensions: 9.2 × 7.5 × 1 cm                                                                                                                                                              | CR2025 Battery • 3V Coin Cell • Lithium Battery • Panasonic Battery • Button Cell                                                                                              |
| No Image                                                                            | EMA-00006-A | Buzzer module   | EM - Electronic-Electrical Modules | Generic, Keyes, Elegoo, SunFounder, DFRobot                                             | The Small PCB Mountable 5V Buzzer is an audio alert component used to produce sound in electronic circuits. It operates on 5V DC and is commonly used in alarms, timers, Arduino projects, and embedded systems for simple audio feedback and notifications.                                                                                                                                                  | Voltage Rating: 5VDC Operating Voltage (VDC): 5 Pin Spacing (mm): 6 Material: Plastic Color: Black Width (mm): 12 (Body Diameter) Height (mm): 8 Weight (g): 1 (approx) (each) Shipping Weight: 0.001 kg Shipping Dimensions: 1 × 1 × 1 cm                                                                                                                                                                                                                                                                    | buzzer • buzzer module • sound • alarm • electronic • module • 5v                                                                                                              |
|    | EMA-00008-B | 2 Channel Relay | EM - Electronic-Electrical Modules | Songle, Keyes, SunFounder, Elegoo, Generic                                              | The 5V 2 Channel Relay Module is used to control high-power AC and DC devices using low-power microcontrollers like Arduino. It supports up to 10A switching per channel and includes LED indicators for status. It is commonly used in home automation, IoT systems, and industrial control applications.                                                                                                    | No. of Channels: 2 Operating Temperature Range: -40 to 85 °C Operating Voltage: 2.5 – 5.5 V (DC) Switching Voltage(AC): 240V@10A Switching Voltage(DC): 30V@10A Trigger Current: 20 mA Trigger Voltage: 5V (DC) Length: 4.3 cm Height: 1.7 cm Width: 4.3 cm                                                                                                                                                                                                                                                   | arduino • module • 5v • relay module • 2 channel • switching • control                                                                                                         |
| No Image                                                                            | EMC-00006-B | GSM Module      | EM - Electronic-Electrical Modules | SIMCom, DFRobot, Itead Studio                                                           | The SIM900A GSM Module is a wireless communication module used for SMS, voice, and data applications over GSM networks. It supports UART communication and SIM card integration for microcontrollers like Arduino. It is widely used in IoT systems, remote monitoring, automation, and embedded communication projects.                                                                                      | Frequency bands: Dual-band GPRS connectivity: GPRS multi-slot class 10 (default) , GPRS multi-slot class 8 (option) Operating Temperature Range: -30 to 80 °C Supply Voltage: 3.4 – 4.5 V Dimensions (LxWxH): 8.5×5.7x2cm (approx)                                                                                                                                                                                                                                                                            | GSM Module • GPRS Module • SMS Module • IoT Module • Arduino GSM • SIM900A                                                                                                     |
|  | EMS-00001-A | MQ-2 Gas Sensor | EM - Electronic-Electrical Modules | Hanwei Electronics Group Corporation, Zhengzhou Winsen Electronics Technology Co., Ltd. | The MQ-2 Gas Sensor Module detects combustible gases such as LPG, methane, hydrogen, alcohol vapor, and smoke. It uses a SnO <sub>2</sub> sensing element and provides both analog and digital outputs with adjustable sensitivity. Ideal for gas leakage detection, safety systems, fire alarms, environmental monitoring, smart home applications, and Arduino-based electronics projects.                  | Sensor Model: MQ-2 Detection Range: 300 – 10,000 ppm Detectable Gases: LPG, Butane, Propane, Methane (CH <sub>4</sub> ), Hydrogen (H <sub>2</sub> ), Alcohol, Smoke, CO Sensing Material: Tin Dioxide (SnO <sub>2</sub> ) Operating Voltage: 5V DC Digital Output Voltage: 0V or 5V (TTL Logic) Analog Output: Yes Sensitivity Adjustment: Onboard Potentiometer Preheat Time: 20 seconds (minimum) Dimensions (mm): 36 × 20 × 21 Weight (g): 8 Shipping Weight: 0.012 kg Shipping Dimensions (cm): 4 × 4 × 4 | Arduino Compatible • MQ-2 Sensor • LPG Gas Sensor • Smoke Detector • SnO <sub>2</sub> Sensor • Combustible Gas Module • 5V Gas Sensor • Gas Leakage Detector                   |
| No Image                                                                            | EMS-00010-B | MQ-3 Sensor     | EM - Electronic-Electrical Modules | Hanwei Electronics, Winsen Electronics, Waveshare                                       | The MQ-3 Alcohol Gas Sensor Module is used to detect alcohol concentration in the air. It provides analog and digital outputs based on gas levels. It is widely used in breath analyzers, safety systems, and IoT monitoring applications.                                                                                                                                                                    | Operating Voltage (V): 2.5 to 5 Additional Specs: Output Pin: Analog and digital, Gold pin connectors, 2.54 mm pitch, Boost Converter Chip: PT1301 Board Size (mm): 40 × 21 mm Mounting Hole Diameter (mm): 2 mm Interface: Digital Output, Analog output, VCC Positive power supply (2.5V-5.0V), Power ground                                                                                                                                                                                                | arduino • alcohol sensor • MQ-3 • gas sensor • ethanol detector                                                                                                                |
|  | EMS-00012-A | Color Sensor    | EM - Electronic-Electrical Modules | ams-OSRAM, ams-OSRAM, ams-OSRAM, Generic Electronics                                    | The TCS3200 Color Sensor Module is an RGB color detection sensor used to identify and measure colors based on reflected light intensity. It uses a light-to-frequency converter IC and photodiodes with onboard LEDs for accurate sensing. It is commonly used in robotics, color sorting, automation, and Arduino projects.                                                                                  | Product Type: RGB Color Sensor Model: TCS3200 / TCS230 Sensor Type: Light-to-Frequency Converter Operating Voltage: 2.7V – 5.5V DC                                                                                                                                                                                                                                                                                                                                                                            | Arduino Color Sensor • Color Detection Module • TCS3200 Color Sensor • RGB Color Sensor • TCS230 Sensor • RGB Recognition Module • ESP32 Color Sensor • Light Frequency Sensor |

| Image                                                                               | Part Number | Name                | Category                           | Manufacturer                                                      | Description                                                                                                                                                                                                                                                                                                                                                                                  | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Tags                                                                                                                                                          |
|-------------------------------------------------------------------------------------|-------------|---------------------|------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | EMS-00012-B | Color Sensor Module | EM - Electronic-Electrical Modules | ams-OSRAM, ams-OSRAM, ams-OSRAM, Generic Electronics              | The TCS3200 Color Sensor Module is an RGB color detection sensor used to identify and measure colors based on reflected light intensity. It uses a light-to-frequency converter IC and photodiodes with onboard LEDs for accurate sensing. It is commonly used in robotics, color sorting, automation, and Arduino projects.                                                                 | Product Type: RGB Color Sensor Model: TCS3200 / TCS34725 Sensor Type: Light-to-Frequency Converter Operating Voltage: 2.7V – 5.5V DC                                                                                                                                                                                                                                                                                                                                                       | TCS3200 Sensor • RGB Sensor • Color Sensor • TCS230 Module • Arduino Color Sensor • ESP32 RGB Sensor • Color Detection Module                                 |
|    | EMS-00013-A | IR Obstacle Sensor  | EM - Electronic-Electrical Modules | Generic OEM Manufacturer, Keyestudio, HiLetgo, Elegoo, SunFounder | The Infrared Obstacle Avoidance Sensor Module is used to detect nearby objects using infrared light reflection. It provides a digital output when an obstacle is detected. It is commonly used in robotics, Arduino smart cars, and obstacle detection systems.                                                                                                                              | Sensor Type: Infrared Reflective Obstacle Sensor Operating Voltage: 3.6V - 5V DC Output Type: Digital (Active Low) Main IC: LM393 Comparator Average Current Consumption: 0.06 mA Detection Angle: 35° Detection Distance: 2 cm – 30 cm (adjustable) Interface Pins: VCC, GND, OUT Indicator LED: Yes (Obstacle Detection Indicator) Sensitivity Adjustment: Onboard Potentiometer Dimensions (mm): 48 × 14 × 8 Weight (g): 5 Shipping Weight: 0.01 kg Shipping Dimensions (cm): 5 × 4 × 1 | IR Obstacle Sensor • Infrared Reflective Module • LM393 Comparator • Active Low Output • Proximity Sensor • Arduino Compatible • Robot Sensor                 |
|    | EMS-00026-A | Magnetometer Module | EM - Electronic-Electrical Modules | Honeywell, ITEAD Studio, DFRobot, Adafruit, SparkFun              | The HMC5883L Triple Axis Compass Magnetometer Module is a 3-axis digital compass sensor used in navigation, robotics, drones, GPS systems, and Arduino projects. It communicates via I2C and measures magnetic field strength along the X, Y, and Z axes. It provides accurate heading and orientation data for motion tracking and autonomous applications.                                 | Product Type: Triple Axis Magnetometer Sensor Model: HMC5883L Number of Axes: 3 Axis Communication Interface: I2C Operating Voltage: 3.3V – 5V ADC Resolution: 12-bit                                                                                                                                                                                                                                                                                                                      | HMC5883L Sensor • Magnetometer Module • Compass Sensor • Triple Axis Compass • GY-271 Sensor • GY-273 Module • Arduino Compass Sensor                         |
|    | EQE-00001-A | Vernier Caliper     | EQ - Equipment/Instrument          | Mitutoyo, INSIZE, Baker Gauges, iGaging                           | Digital vernier calipers are precision tools used to measure internal, external, depth, and step dimensions accurately. They feature an LCD display for quick and easy digital readings with high precision. Commonly used in engineering, electronics, machining, woodworking, labs, robotics, and DIY projects for accurate measurement tasks.                                             | Product Type: Digital Vernier Caliper Measuring Range: 0 – 150 mm Resolution: 0.01 mm Accuracy: ±0.02 mm Display Type: LCD Digital Display                                                                                                                                                                                                                                                                                                                                                 | DIY Measuring Tool • Digital Vernier Caliper • Electronic Caliper • LCD Caliper • Precision Measuring Tool • Digital Measuring Tool • Stainless Steel Caliper |
|   | EQE-00002-A | Digital Multimeter  | EQ - Equipment/Instrument          | Generic / OEM, YX-360, Mastech, Victor, Pro'sKit                  | Compact Digital Multimeter for everyday electrical testing. Measures AC/DC voltage, DC current, resistance, diode, continuity, transistor hFE, battery condition, and square wave output. Features an easy-to-read LCD display for accurate readings. Ideal for students, hobbyists, laboratories, DIY projects, and technicians for troubleshooting, testing, and educational applications. | Item Type: Multimeter Model Type: Digital Multimeter (DT830D Type) Probe Length: 60 cm Length: 120 mm Width: 70 mm Height: 27 mm Weight: 160 g Shipping Weight: 0.18 kg Shipping Dimensions: 15 × 8 × 3.5 cm                                                                                                                                                                                                                                                                               | DT830D • Digital Multimeter • AC/DC Tester • LCD Display • VOM                                                                                                |
|  | MMB-00002-A | Compartment Box     | MM - Mechanical Module             | Stanley, Pro'sKit, Tactix, Deli                                   | The 8-compartment storage box is a durable organizer for storing electronic components, motors, sensors, screws, wires, connectors, Arduino accessories, tools, and DIY hardware. It features a sturdy plastic body with a transparent lid and removable dividers for flexible storage. Ideal for workshops, labs, and DIY projects, it keeps items neatly organized and easily accessible.  | Product Type: Compartment Storage Box Number of Compartments: 8 Material: Plastic / Polypropylene Box Type: Large Organizer Box Storage Items: Sensors, Screws, Components                                                                                                                                                                                                                                                                                                                 | Storage Box • Component Storage Box • Parts Organizer • DIY Storage • 8 Compartment Box • Large Organizer Box • Hardware Organizer                            |
|  | MMB-00002-B | Compartment Box     | MM - Mechanical Module             | Stanley, Pro'sKit, Tactix, Deli                                   | The 6-compartment storage box is a compact organizer for storing electronic components like resistors, LEDs, ICs, screws, nuts, and connectors. It is lightweight, portable, and helps keep small parts neatly organized and easy to access. Ideal for electronics labs, workshops, DIY projects, and hobby use.                                                                             | Product Type: Compartment Storage Box Number of Compartments: 6 Material: Plastic / Polypropylene Box Type: Small Organizer Box Storage Items: Screws, LEDs, ICs                                                                                                                                                                                                                                                                                                                           | Storage Box • Organizer Box • 6 Compartment Box • Small Parts Box • Component Storage • Electronics Organizer • DIY Storage                                   |

| Image                                                                               | Part Number | Name                | Category               | Manufacturer                                                                | Description                                                                                                                                                                                                                                                                                                                                                                                             | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Tags                                                                                                            |
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|    | MMC-00004-A | USB A to B Cable    | MM - Mechanical Module | MWduino                                                                     | USB Type-A to Type-B data cable designed for Arduino UNO and other compatible development boards. Provides reliable data transfer and stable 5V power for programming, debugging, and communication. Features a compact 30cm length and durable construction, making it ideal for students, hobbyists, prototyping, embedded systems development, and educational electronics projects.                 | Item Type: Data Cable Color: Blue Cable Length: 30 cm USB Type: Type-A to Type-B Weight: 19 g Shipping Weight: 0.025 kg Shipping Dimensions (L × W × H): 9 × 7 × 2 cm                                                                                                                                                                                                                                                                                                                                                         | USB Cable • USB A to B • Arduino Cable • Printer Cable • UNO Programming Cable                                  |
| No Image                                                                            | MMD-00001-A | Mini DC Motor       | MM - Mechanical Module | Roboman, Rytronics, Singh Varieties, Ercoms Robotics, Robiz (OEM)           | The Compact 3–6V DC Mini Motor is a small low-voltage motor used in robotics and DIY electronics projects. It provides smooth rotation for lightweight applications. It is commonly used in mini robots, Arduino cars, and educational kits for driving wheels and simple mechanisms.                                                                                                                   | Motor Size: 38 × 20 × 15 mm Shaft Diameter: 2 mm Shaft Length (Axial): 9 mm Operating Voltage: 3V – 6V Motor Type: DC Motor                                                                                                                                                                                                                                                                                                                                                                                                   | dc motor • Mini Motor • 3V Motor • Arduino Motor • DIY Robotics • Smart Car Motor                               |
|    | MMD-00001-B | BO Motor Dual Shaft | MM - Mechanical Module | Generic Robotics, Robu.in, FlyRobo, DFRobot, Keyestudio                     | The BO2 Side Shaft Plastic Gear Motor is a lightweight DC geared motor used in robotics, smart cars, line follower robots, obstacle avoidance robots, STEM kits, and Arduino projects. It features a plastic gearbox with dual side shafts for easy wheel mounting and smooth power transmission. It provides low-speed, high-torque performance, making it ideal for educational and DIY applications. | Product Type: Plastic Geared DC Motor Motor Type: BO2 Side Shaft Motor Operating Voltage: 3V – 12V DC Rated Voltage: 6V DC Speed Range: 60RPM – 300RPM                                                                                                                                                                                                                                                                                                                                                                        | Arduino Motor • BO Motor • DC Gear Motor • BO2 Gear Motor • Plastic Gear Motor • Side Shaft Motor • Robot Motor |
|    | MMD-00002-B | Servo Motor         | MM - Mechanical Module | TowerPro, MWduino Compatible, Generic                                       | Compact 9g micro servo motor with 180° rotation for precise position control. Provides 1.2–1.6 kg-cm torque and fast response, making it ideal for robotics, RC models, automation, and educational projects. Compatible with Arduino and other microcontrollers using standard PWM signals. Lightweight, reliable, and easy to integrate into DIY and prototyping applications.                        | Item Type: TowerPro Servo Motor Model Series: SG Series Model No.: SG90 Rotation (Degree): 180° Torque Rating (kg-cm): 1.2 to 1.6 Operating Voltage (VDC): 3.0 – 7.2 Operating Speed @ 4.8V: 0.10 sec/60° Stall Torque @ 4.8V (kg-cm): 1.2 Stall Torque @ 6.6V (kg-cm): 1.6 Operating Temperature (°C): -30 to 60 Gear Type: Glass Fiber Servo Plug Type: JR Cable Length (cm): 25 Length (mm): 22.8 Width (mm): 12.6 Height (mm): 34.5 Weight (g): 9 Shipping Weight: 0.014 kg Shipping Dimensions (L × W × H): 8 × 6 × 4 cm | SG90 Servo • 9g Servo Motor • Micro Servo • RC Servo • Arduino Servo                                            |
|   | MMD-00004-A | Vibrating Motor     | MM - Mechanical Module | Precision Microdrives, Adafruit, Jinlong Machinery, Generic Motors, DFRobot | DC vibrating motors are compact motors with an off-center weight that creates vibration when the motor rotates. They are widely used in mobile phones, wearables, robotics, alert systems, haptic feedback devices, and Arduino projects. Lightweight and easy to use, they are ideal for DIY electronics and interactive applications.                                                                 | Product Type: Vibrating DC Motor Operating Voltage: 1.5V – 5V DC Speed: 8000 – 12000 RPM Current Consumption: 60mA – 100mA                                                                                                                                                                                                                                                                                                                                                                                                    | Mini Motor • Arduino Motor • Vibration Motor • Vibrating Motor • Coin Motor • DC Vibration Motor • Haptic Motor |
|  | MMK-00001-A | Jumper Wire Kit     | MM - Mechanical Module | SparkFun, Adafruit, Pololu, Generic                                         | The Jumper Wire Kit is a set of male-to-male, male-to-female, and female-to-female wires used for breadboard prototyping and circuit connections. It enables easy, solder-free connections between components, sensors, and microcontrollers. It is widely used in Arduino projects, robotics, IoT systems, educational kits, and DIY electronics.                                                      | Cable Types: Male-Female, Male-Male, Female-Female Quantity: 80 MF, 80 MM, 80 FF Wire Length: 10cm – 30cm Conductor Material: Copper                                                                                                                                                                                                                                                                                                                                                                                          | Breadboard Wire • jumper wires • Dupont cable • MF cable • MM cable • FF cable                                  |
|  | MMM-00001-A | BO Motor            | MM - Mechanical Module | FlyRobo, RoboticsDNA, RoboElements                                          | The 100 RPM Dual Shaft BO Motor is a low-voltage DC geared motor used for robotics and motion control. It provides good torque at 3–6V and features a dual shaft for easy wheel mounting. It is widely used in robot cars, DIY projects, and educational kits.                                                                                                                                          | Gearbox Shape: Straight Operating Voltage: 3 – 6 V Rated Speed After Reduction: 100 RPM Shaft Diameter: 0.55 cm (Double) Shaft Length: 0.85 cm Dimensions (LxWxH): 7 × 2.3 × 1.9 cm                                                                                                                                                                                                                                                                                                                                           | robotics • arduino • BO Motor • Gear Motor • Smart Car                                                          |

| Image                                                                               | Part Number | Name                | Category               | Manufacturer                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                     | Specification                                                                                                                                                                                                                               | Tags                                                                                                                     |
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| No Image                                                                            | MMM-00005-B | Rubber wheels       | MM - Mechanical Module | DFRobot, Pololu, SparkFun, Waveshare                                           | Rubber wheels for DC motors are used in robotics, Arduino car kits, line follower robots, obstacle avoidance robots, and DIY projects. They fit BO and TT geared motors and provide good grip, stability, and smooth movement on different surfaces. Made from durable rubber, they are ideal for educational and prototyping applications.                                                                     | Product Type: Rubber Wheel for DC Motor Wheel Diameter: 65mm / 70mm<br>Compatible Motors: BO Motor / TT Motor Wheel Width: 25mm – 30mm                                                                                                      | Robot Wheel • Rubber Wheel • DC Motor Wheel • Smart Car Wheel • Tyre Wheel • DIY Robot Wheel • Motor Wheel               |
|    | MMM-00006-A | Castor wheel        | MM - Mechanical Module | Blickle, TENTE, Shepherd Hardware, Caster Concepts                             | 1-inch castor wheels are small wheels used for robotics, DIY platforms, trolleys, furniture, and movable enclosures. Available in swivel and fixed types, they provide smooth and easy movement. Made from plastic, rubber, or nylon, they are durable and suitable for lightweight mobility and prototyping applications.                                                                                      | Product Type: Castor Wheel Wheel Size: 1 inch Load Capacity: 5kg – 20kg<br>Rotation: 360° Swivel                                                                                                                                            | DIY Hardware • Castor Wheel • 1 Inch Wheel • Mini Castor • Swivel Wheel • Furniture Wheel • Robot Wheel                  |
|    | MMP-00003-C | M3 Screw 30mm       | MM - Mechanical Module | Unbrako, TVS Fasteners, Bossard, RS PRO                                        | M3 × 30mm machine screws are metric fasteners used in PCB mounting, robotics, Arduino projects, 3D printers, electronic enclosures, and mechanical assemblies. They offer strong and reliable fastening and are available in stainless steel and alloy steel with Phillips, Allen, and hex head options. Ideal for prototyping, repairs, manufacturing, and DIY electronics projects requiring secure assembly. | Product Type: Machine Screw Screw Size: M3 × 30mm Thread Type: Metric<br>Thread Application: PCB Mounting, Robotics, DIY                                                                                                                    | DIY Hardware • M3 Screw • Machine Screw • Hex Screw • Mounting Screw • PCB Screw • M3x30mm Screw                         |
|    | TLC-00007-A | Desolder Pump       | TL - Tools             | Generic / OEM, Noel, Pro'sKit, Velleman, Engineer                              | A desoldering pump is a handy tool used to remove molten solder from PCBs during repairs and component replacement. It uses a spring-loaded plunger and heat-resistant nozzle to create strong suction, quickly clearing solder from joints. Lightweight, portable, and easy to use, it helps ensure clean desoldering while reducing the risk of damage to delicate electronic components.                     | Item Type: Desoldering Pump Body Material: Aluminum or Plastic Tip Material: Heat-resistant Teflon Color: Blue / Silver Length: 190 mm Width: 30 mm Height: 30 mm Weight: 29 g Shipping Weight: 0.03 kg Shipping Dimensions: 17 × 12 × 3 cm | PCB Rework • Desoldering Pump • Solder Sucker • Manual Vacuum • Teflon Tip                                               |
|   | TLM-00004-A | Metal Hacksaw Blade | TL - Tools             | Taparia Tools Ltd, Stanley Tools, Bosch, DeWalt, JK Files & Tools, Ultra Tools | Metal cutting hacksaw blades are used for cutting steel, iron, aluminum, copper, pipes, rods, and metal sheets. Made from bi-metal or HSS, they offer good strength, sharpness, and durability. Higher TPI gives smoother and more precise cuts. These blades are widely used in workshops, fabrication, maintenance, and DIY metalworking projects for reliable cutting performance.                           | Blade Length: 150 mm / 300 mm Material: Bi-Metal / HSS / Carbon Steel<br>Application: Metal Cutting, Workshop, DIY                                                                                                                          | Hacksaw Blade • Metal Cutting Blade • Bi-Metal Blade • DIY Tool Blade • HSS Blade • Steel Cutting Blade • Hand Saw Blade |
|  | TLM-00004-B | Wood Saw Blade      | TL - Tools             | Taparia Tools Ltd, Stanley Tools, Ingco Tools, DeWalt                          | Wood cutting hacksaw blades are designed for cutting soft wood, plywood, PVC, and plastic materials. With a lower TPI design, they allow faster cutting and efficient material removal. These blades provide smooth performance and good durability, making them suitable for woodworking, craft projects, repairs, and DIY applications where quick and reliable cutting is required.                          | Blade Length: 150 mm / 300 mm Material: Carbon Steel / Bi-Metal Suitable Material: Wood, PVC, Plastic Application: DIY, Carpentry, School Projects                                                                                          | Hacksaw Blade • Carbon Steel Blade • Wood Cutting Blade • Mini Hacksaw Blade • Junior Blade • DIY Tool Blade             |
|  | TLM-00004-D | Hacksaw Blade       | TL - Tools             | Taparia, Taparia                                                               | Hacksaw blades are used for cutting metal, plastic, PVC pipes, and rods. Made from carbon steel or bi-metal HSS, they provide good strength, sharpness, and durability. The precision teeth design ensures smooth and accurate cutting. These blades are commonly used in workshops, maintenance work, DIY projects, and industrial applications for reliable and efficient cutting performance.                | Blade Length: 12 inch / 300 mm Material: Carbon Steel / Bi-Metal HSS<br>Standard: IS 2594-2003 Application: Metal, PVC, Plastic Cutting                                                                                                     | Hacksaw Blade • Metal Cutting Blade • Hand Tool Blade • Carbon Steel Blade • Bi-Metal Blade • 18TPI Blade • 24TPI Blade  |

| Image                                                                             | Part Number | Name                 | Category   | Manufacturer             | Description                                                                                                                                                                                                                                                                                                                                                                                    | Specification                                                                                                                                  | Tags                                                                                                                 |
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|  | TLP-00004-A | Cordless Power Drill | TL - Tools | Bosch, Robert Bosch GmbH | The Professional is a compact 12V cordless impact drill designed for drilling and screwdriving in wood, metal, and masonry. It features variable speed control, reverse rotation, and impact drilling for versatile use. Lightweight and durable, it is easy to handle and ideal for professional work, home repairs, and DIY projects requiring reliable and portable power tool performance. | Voltage: 12V Battery Type: Lithium-Ion No Load Speed: 0–400 / 0–1500 RPM Chuck Capacity: 10 mm Max Torque: 30 Nm Impact Rate: Up to 22,500 BPM | DIY Tool • Cordless Drill • Impact Drill • 12V Drill • Power Tool • Electric Drill • Professional Drill • Bosch Tool |