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Generated: 2026-04-19 17:24:26







Total Parts: 34




| Image | Part Number | Name | Category | Manufacturer | Description | Specification | Tags |
|---|-------------|---|------------------------|---|--|---|---|
|  | COC-00001-D | Black PVC Insulation Tape | CO - Consumables | 3M, Generic / OEM, Tesa, Anchor by Panasonic, Nitto | Black PVC insulation tape designed for electrical insulation, wire repair, cable bundling, and protection of electrical connections. Made from flexible, stretchable vinyl material with strong adhesion and resistance to heat, moisture, abrasion, and weather conditions. Suitable for indoor and outdoor applications. Ideal for electricians, technicians, and DIY users requiring safe and reliable electrical insulation. | Item Type: Insulation Tape Material: PVC Color: Black Length (mm): 55 Width (mm): 55 Height (mm): 20 Weight: 35 g Shipping Weight: 0.04 kg Shipping Dimensions: 6 x 6 x 3 cm | PVC Tape • Electrical Tape • Black Insulation Tape • Flame Retardant • Wire Wrapping |
|  | COC-00003-B | Hot Melt Glue Sticks (11mm, 5pcs Pack) | CO - Consumables | Generic / OEM, 3M, Pro'sKit, Stanley, Bosch | All-purpose hot melt glue sticks suitable for bonding applications in DIY, electronics, crafts, packaging, and general repairs. Designed for use with standard temperature glue guns operating around 200°C and compatible with 11mm diameter glue stick slots. Provides strong adhesion on plastic, wood, fabric, paper, and light materials. | Item Type: Hot Melt Glue Sticks Stick Diameter: 11 mm Pack Quantity: 5 Pieces Shipping Weight: 0.2 kg Shipping Dimensions: 4 x 4 x 4 cm | Glue Sticks • 11mm Glue Stick • Hot Melt Adhesive • Glue Gun Refill • DIY Adhesive |
|  | COC-00004-A | Desoldering Wick 1.5m (100% Copper) | CO - Consumables | Generic | Finely braided 100% copper wick for fast and clean solder removal from electronic joints. Works with a heated soldering iron; flux-assisted for efficient molten solder absorption. Essential for PCB repair, rework, and general electronics maintenance tasks. | Item Type: Desoldering Wick Material: Suitable for Comfortable Desoldering Length: 1.5 m Width: 1.85 mm Thickness: Suitable for Comfortable Desoldering Application: Faster & Cleaner Electronics Desoldering Shipping Weight: 0.008 kg Shipping Dimensions (L x W x H): 6 x 5 x 1 cm | Desoldering Wick • Solder Braid • PCB Repair • 100% Copper • Solder Removal • Flux-Assisted • Electronics Rework • 1.5m |
|  | COC-00007-A | Soldering Flux Paste (10g) | CO - Consumables | Generic / OEM, Noel, Welfix, Mechanic, Pro'sKit | This soldering flux paste is designed to improve solder flow and enhance joint quality during soldering and desoldering operations. It contains high-quality additives and activators for effective bonding. The paste is prepared using standardized formulations to ensure consistent performance. It reduces oxidation and ensures clean and reliable solder joints. Suitable for general-purpose soldering of electrical wires, PCB components, and cables. Ideal for DIY users, students, and professional technicians. | Item Type: Soldering Flux Paste Net Weight: 10 g Color: White / Yellow (as per brand batch) Usage: PCB, Wires, Electrical Components Packaging Type: Small Plastic Container | Flux Paste • 10g • Soldering Flux • PCB Repair • Low Smoke |
|  | COE-00001-C | CR2025 3V Lithium Coin Cell | CO - Consumables | Panasonic | .Panasonic CR2025 is a 3V lithium coin cell battery designed for long-lasting and reliable power in compact electronic devices. Built using Lithium Manganese Dioxide (LiMnO ₂) chemistry, it offers stable discharge characteristics and a shelf life of up to 10 years under proper storage conditions. Suitable for car key remotes, medical devices, digital watches, calculators, fitness devices, memory backup systems, and other small electronics. | Battery Type: Lithium Coin Cell Battery Size: CR2025 Chemistry: Lithium Manganese Dioxide (LiMnO ₂) 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 x 7.5 x 1 cm | CR2025 Battery • 3V Coin Cell • Lithium Battery • Panasonic Battery • Button Cell |
|  | EDA-00002-A | 10-Pin Alligator Clip to Female Dupont Jumper Wire (20cm) | MM - Mechanical Module | Generic / OEM, KEYESTUDIO, SunFounder, DFRobot | 10-pin jumper wire set featuring insulated alligator (crocodile) clips on one end and female Dupont connectors on the other. Designed for quick and secure temporary electrical connections in DIY projects, prototyping, and laboratory testing. Widely used in school physics labs, breadboard testing, circuit assembly, and component holding during soldering. | Item Type: Electronics Accessory Jumper Type: Female Clip Length: 22.6 mm Cable Length: 20 cm Material: Copper with Plastic Insulation Shipping Weight: 0.04 kg Shipping Dimensions: 7 x 4 x 2 cm | Alligator Clip Wire • Dupont Jumper Wire • 10 Pin Jumper • Crocodile Clip Cable • 20cm Test Lead |
|  | EDD-00001-A | Laser Diode | ED - Electronic Device | OSRAM, Sharp, Rohm, Mitsubishi, Generic | Mini 650nm 6mm 5mW Laser Dot Diode Module which is made of copper plastic. Can be driven from 3V to 5V DC so they're great for your embedded electronics project, robot, or other application. You require a 3 to 5VDC power supply which you'd get from two standard AAA or AA batteries. These diodes are 5mW output and have a safety label marked on them. It is suitable for 3V 5mW standard, with 6mm outside diameter, can be used to connect diode tubes for multiple uses. | Item Type: Laser Module Voltage Rating (V): 5 Weight (g): 2 Operating Temperature (°C): -10 to 50 Rated Power (mW): 5mW Wavelength (nm): 650 | laser diode • laser • light emitter • optical • semiconductor • electronic device |

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|---|----------------|---|------------------------|--|---|--|---|
|  | EDD-00002-A | Red LED (10mm, DIP Type) | ED - Electronic Device | Generic | Red Light Emitting Diode (LED) used as an indicator in electronic circuits. Emits bright red light when powered, ideal for TVs, monitors, telephones, computers. Suitable for general indicator applications, prototyping, and electronics projects. | 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 x W x H): 1 x 1 x 1 cm | Red LED • Indicator LED • Through Hole LED • DIP LED • 10mm LED |
|  | EDD-00002-C | Yellow LED (10mm, DIP Type) | ED - Electronic Device | Generic | Yellow Light Emitting Diode (LED) used as an indicator in electronic circuits. Emits bright yellow light with a transparent body, ideal for TVs, monitors, telephones, and computers. Suitable for general indicator applications, prototyping, and project indicator panels. | 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 x W x H): 1 x 1 x 1 cm | Indicator LED • Through Hole LED • DIP LED • 10mm LED • Yellow LED |
|  | EDM-00001-A | Tactile Push Button Switch Round Key (12x12x7.3mm, 25PCS Kit) | ED - Electronic Device | OMRON, E-Switch | 12x12x7.3mm tactile push button switches with momentary ON-OFF operation. Rated for 12V DC and 120mA with responsive tactile feedback. Includes 25 color-coded round keycaps and storage box for prototyping and DIY projects. | Item Type: Micro Switch Model: Tactile Push Button Switch Operation Mode: ON-OFF Contact Type: Momentary Current Rating: 120mA Operating Voltage: 12V DC Switch Type: Push Button Material: Metal and Plastic Mounting Type: Surface Mount Button Size (mm): 12x12x7.3 Operating Temperature (°C): -25 to +70 Lifespan: ~1000 Cycles Box Dimensions (mm): 127.1 x 68.3 x 21.9 Weight (g): 55 Shipping Weight: 0.06 kg Shipping Dimensions (L x W x H): 13 x 7 x 3 cm | Tactile Switch • Push Button • 12x12mm Switch • Momentary Switch • Arduino Button Kit |
|  | EDR-00001-100Z | 0.25W Resistor - 100 Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | 1. 100 ohm Carbon Film Resistors are typical axial-lead resistors, which have much better temperature stability and provide lower noise, and are generally better for high frequency or radiofrequency applications. 2. We made it available in the form of a bunch of different values as required for the project to provide convenience, so you need not find a differently required value resistor at different places while working on your project. | Series: - Resistance (Ohm): 100 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 x 1 x 1 cm | resistor • 100ohm • carbon film • passive component |
|  | EDR-00001-10K0 | 0.25W Resistor - 10K Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | 1.10K/100? Carbon Film Resistors are typical axial-lead resistors that offer good temperature stability and low noise performance. They are suitable for general-purpose electronic circuits, including high-frequency and RF applications. 2. These resistors are available in multiple values for project flexibility, eliminating the need to source different resistor values separately. | Power: 1/4 W Resistance: 100 ? Resistance Tolerance: 5% Type: Carbon Film Resistors | Through Hole • carbon film • 10k resistor • 0.25w • passive • axial |
|  | EDR-00001-1K00 | 0.25W Resistor - 1K Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | 1K ohm Carbon Film Resistors are typical axial-lead resistors, which have much better temperature stability and provide lower noise, and are generally better for high frequency or radiofrequency applications. | Series: - Resistance (Ohm): 1k 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 x 1 x 1 cm | carbon film • 0.25w • passive • 1k resistor |
|  | EDR-00001-1M00 | 0.25W Resistor - 1M Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | It is a 1M Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications. | Series: - Resistance (Ohm): 1M 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 x 1 x 1 cm | 0.25w • passive • 1m resistor • metal film |
|  | EDR-00001-220Z | 0.25W Resistor - 220 Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | It is a 220 Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications. | Series: - Resistance (Ohm): 220 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 x 1 x 1 cm | |

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|---|-----------------------|---|------------------------------------|---|---|---|---|
|  | EDR-00001-330Z | 0.25W Resistor - 330 Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | It is a 330 Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications. | 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 x 1 x 1 cm | |
|  | EDR-00001-470Z | 0.25W Resistor - 470 Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | It is a 470 Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications. | Power: 1/4 W Resistance: 47k ? Resistance Tolerance: 5% Type: Carbon Film Resistors | resistor • carbon film • 0.25w • passive • axial • 470ohm |
|  | EDR-00001-680Z | 0.25W Resistor - 680 Ohm | CO - Consumables | Yageo, Vishay, KOA Speer, TE Connectivity, Generic | It is a 680 Ohm 0.25W Metal Film Resistor. This resistor is for through-hole applications. | Series: – Resistance (Ohm): 680 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 x 1 x 1 cm | resistor • carbon film • 0.25w • passive • axial • 680ohm |
|  | EDR-00002-10K0 | 10K? Potentiometer (3-Pin, 15mm Shaft) | ED - Electronic Device | ED Series / Generic Compatible, Bourns, Alpha, Omega | 10KΩ rotary potentiometer used for adjusting voltage, current, and signal levels in electronic circuits. Features smooth single-turn rotation with a durable 15mm shaft and through-hole mounting. Ideal for audio control, Arduino analog input, sensor calibration, and embedded system tuning. | Manufacturer: Generic Resistance (Ohm): 10K Tolerance (%): 20 Temperature Coefficient: ±100ppm/°C Operating Temperature (°C): -40 to 80 Mounting Type: Through Hole Shaft Type: 15mm Rotary Shaft Adjustment Type: Single Turn Length (mm): 20 Width (mm): 17 (Body Diameter) Height (mm): 24 Weight (g): 6 Shipping Weight: 0.001 kg Shipping Dimensions (L x W x H): 1 x 1 x 1 cm | 10K Potentiometer • Rotary Pot • Variable Resistor • WH148 Potentiometer • 3-Pin Pot |
|  | EDT-00005-A | DHT11 Temperature and Humidity Sensor Module with LED | EM - Electronic-Electrical Modules | EM Series / Generic Compatible, KEYESTUDIO, SunFounder, DFRobot | Digital temperature and humidity sensor module with calibrated single-wire serial output. Features onboard pull-up resistor and LED status indicator for easy interfacing. Ideal for weather stations, environmental monitoring, and smart automation projects. | Item Type: Sensor Model: DHT11 Temperature and Humidity Sensor Measuring Temperature Range (°C): 0 – 50 Temperature Accuracy: ± 2 °C Humidity Range: 20 – 95 % RH Humidity Accuracy: ± 5 % RH Resolution: 16 bit Output Form: Digital Output (Single Wire Serial) Operating Voltage (VDC): 3 – 5 Operating Current (mA): ? 2.5 Dimensions (L x W x H mm): 31 x 14 x 7.5 Weight (g): 5 Shipping Weight: 0.01 kg Shipping Dimensions (L x W x H cm): 5 x 5 x 2 | DHT11 • Temperature Sensor • Humidity Sensor • Digital Temp Sensor • Arduino Climate Sensor |
|  | EMA-00001-A | Liquid Crystal Display with Serial I2C | EM - Electronic-Electrical Modules | MWduino / Generic, KEYESTUDIO, SunFounder | 16x2 character LCD module with integrated I2C interface for simplified wiring. Blue backlight with white characters for clear and high-contrast visibility. Ideal for Arduino, Raspberry Pi, and embedded systems requiring compact data display. | Model: Other LCD Model No.: LCD1602 Display Type: 16 x 2 Character LCD Backlight Color: Blue Character Color: White I2C Address: 0x27 Input Voltage (V): 5 Length (mm): 36 Width (mm): 80 Height (mm): 18 Weight (g): 35 Shipping Weight: 0.037 kg Shipping Dimensions (L x W x H): 8 x 5 x 3 cm | LCD1602 • 16x2 LCD • I2C LCD Display • Arduino Display • Character LCD Module |
|  | EMA-00003-B | WS2812B 8-Bit RGB NeoPixel LED Module (8x 5050 LEDs) | EM - Electronic-Electrical Modules | Worldsemi Co., Ltd., Generic / OEM | The WS2812B 8-Bit RGB LED Module features 8 individually addressable 5050 RGB LEDs with integrated driver ICs. It operates on 5V and uses a single-wire communication protocol for precise color and brightness control. Ideal for programmable lighting, animations, IoT devices, and Arduino-based creative projects. | LED Model: WS2812B Package Type: 5050 SMD Number of LEDs: 8 Color Type: Full-Color RGB Bit Depth: 8-bit per channel (24-bit RGB total) Operating Voltage: DC 5V Control Interface: Single Data Line (Serial) Communication Protocol: One-Wire Timing Protocol PCB Color: White Mounting Type: Solderless / Plug-and-Play Length (mm): 105 Width (mm): 10 Height (mm): 6 Weight (g): 8 Shipping Weight: 0.01 kg Shipping Dimensions (L x W x H cm): 12 x 8 x 1 | Arduino Compatible • WS2812B • NeoPixel Module • 8 LED RGB • 5050 SMD • Addressable LED • 5V RGB Strip • Programmable LED |

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|---|--------------------|--|------------------------------------|--|--|--|--|
|  | EMA-00008-A | Single Channel Relay Module (12V, High/Low Level Trigger) | EM - Electronic-Electrical Modules | Single Relay, Generic / OEM | The Single Channel 12V Relay Module allows low-voltage microcontrollers to safely control high-voltage AC or DC loads. It supports both high-level and low-level trigger modes and includes status LEDs for operation indication. Ideal for home automation, motor control, IoT systems, and industrial switching applications. | Model: Relay Module Number of Channels: 1 Operating Voltage (VDC): 12 Trigger Type: High-Level / Low-Level Trigger Relay Contact Rating (AC): 10A @ 250V AC Relay Contact Rating (AC Alternate): 15A @ 125V AC Contact Type: COM, NO (Normally Open), NC (Normally Closed) Interface: 2.54 mm Header Pins Output Connection: 3-Pin Screw Terminal Indicators: Power LED + Relay Status LED Length (mm): 50 Width (mm): 25 Height (mm): 20 Weight (g): 16 Shipping Weight: 0.025 kg Shipping Dimensions (L x W x H cm): 7 x 4 x 3 | Arduino Compatible • 12V Relay Module • Single Channel Relay • High/Low Trigger • Single SRD-12VDC-SL-C • SPDT Relay • 10A 250VAC • IoT Switching Module |
|  | EMA-00009-A | ISD1820 Voice Recording & Playback Module with Mic and Speaker | EM - Electronic-Electrical Modules | Nuvoton Technology Corporation, Generic / OEM | ISD1820 Module, Voice Recorder, 10s Audio, Playback Module, Onboard Mic, 8Ω Speaker, Arduino Compatible, Sound Board . The ISD1820 Voice Recording Module allows up to 10 seconds of audio recording stored in non-volatile analog flash memory. It features an onboard electret microphone, push-button controls, and supports external triggering via microcontroller. | IC Chip: ISD1820 Operating Voltage (VDC): 3 – 5 Recording Duration: Up to 10 seconds Memory Type: Non-Volatile Analog Flash Microphone: Onboard Electret Microphone Speaker: 8 Ω, 0.5W Speaker Cable Length (cm): 20 Speaker Diameter (mm): 40 Control Options: Push Buttons or Microcontroller Digital Pin Interface: 2.54 mm Header Pins Length (mm): 42 Width (mm): 33.5 Height (mm): 11.5 Weight (g): 20 Shipping Weight: 0.022 kg Shipping Dimensions (L x W x H cm): 8 x 6 x 3 | Arduino Compatible • ISD1820 Module • Voice Recorder • 10s Audio • Playback Module • Onboard Mic • 8Ω Speaker • Sound Board |
|  | EMA-00010-B | Motor Driver Module | EM - Electronic-Electrical Modules | Texas Instruments, STMicroelectronics, NXP Semiconductors, ON Semiconductor, Toshiba | The L293D Motor Driver Module is a dual H-bridge driver used to control DC and stepper motors. It allows direction and speed control using PWM signals from microcontrollers like Arduino. Ideal for robotics and automation projects with support up to 12V and 600mA current. | Driver IC: L293D Motor Type: DC & Stepper Motor Operating Voltage: 4.5V – 12V Current Rating: 600mA per channel Peak Current: 600mA Control Method: Direction + PWM Speed Control Number of Channels: 2 (H-Bridge) Arduino Compatible: Yes (via wires) Polarity Protection: NO Cooling Fan: NO Dimensions: 48 x 34 x 14 mm Weight: 15g | motor • L293d • motor driver • dc motor • stepper motor • robotics • arduino • h-bridge • pwm |

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|---|--------------------|---|------------------------------------|--|---|---|--|
|  | EMP-00001-C | 12V 2A SMPS Power Adapter | EM - Electronic-Electrical Modules | Generic / OEM, Mean Well, Delta Electronics, LEICKE | 12V 2A Switched Mode Power Supply (SMPS) adapter designed to provide stable and regulated DC output. Converts AC 100–240V input to 12V DC output with low losses and high efficiency compared to conventional linear power supplies. Suitable for powering Arduino boards, routers, LCD displays, DC motors, audio equipment, TV boxes, mini electronics, and other devices requiring up to 2A current. | Input Voltage: 100–240V AC Output Voltage: 12V DC Maximum Output Current: 2A Output Connector Size: 5.5 x 2.5 mm Polarity: Center Positive Operating Temperature: -25°C to +60°C Shipping Weight: 0.02 kg Shipping Dimensions: 10 x 6 x 6 cm | 12V Adapter • 12V 2A Power Supply • SMPS Adapter • AC-DC Adapter • 5.5x2.5mm Power Adapter |
|  | EMS-00001-A | MQ-2 Smoke LPG Butane Hydrogen Gas Sensor Detector Module | 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 ₂ sensing element and provides both analog and digital outputs with adjustable sensitivity. Ideal for gas leakage detection, safety systems, and Arduino-based environmental monitoring projects. | Sensor Model: MQ-2 Detection Range: 300 – 10,000 ppm Detectable Gases: LPG, Butane, Propane, Methane (CH ₄), Hydrogen (H ₂), Alcohol, Smoke, CO Sensing Material: Tin Dioxide (SnO ₂) 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 x 20 x 21 Weight (g): 8 Shipping Weight: 0.012 kg Shipping Dimensions (cm): 4 x 4 x 4 | Arduino Compatible • MQ-2 Sensor • LPG Gas Sensor • Smoke Detector • SnO ₂ Sensor • Combustible Gas Module • 5V Gas Sensor • Gas Leakage Detector |
|  | EMS-00013-A | Infrared Obstacle Avoidance IR Sensor Module | EM - Electronic-Electrical Modules | Generic OEM Manufacturer, Keyestudio, HiLetgo, Elegoo, SunFounder | The Infrared Obstacle Avoidance Sensor Module detects nearby objects using reflected infrared light. It uses an IR transmitter–receiver pair with an LM393 comparator to provide a digital active LOW output when an obstacle is detected. Ideal for robotics, smart cars, automation systems, and Arduino-based proximity detection projects. | 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 x 14 x 8 Weight (g): 5 Shipping Weight: 0.01 kg Shipping Dimensions (cm): 5 x 4 x 1 | IR Obstacle Sensor • Infrared Reflective Module • LM393 Comparator • Active Low Output • Proximity Sensor • Arduino Compatible • Robot Sensor |
|  | EMS-00014-A | Touch Detector | EM - Electronic-Electrical Modules | Tontek Design Technology, Shenzhen Tontek (Tontek IC), Generic Module Manufacturer, Waveshare (Module Vendor), Keyestudio (Arduino Vendor) | TTP223B Capacitive Touch Key Sensor Module is based on a touch-sensing IC capacitive touch switch module. It allows you to remove the worry of conventional push-type keys. Digital Capacitive Touch Switch Module is based on TTP223B. Normally, it outputs low and keeps at a low power state. When a touch is sensed on the circular marked region, it outputs high and switches to the quick response state. When not being touched for 12 seconds, it switches to a low power state again. In addition to the thin paper (non-metallic) covering the surface of the module, as long as the correct location of the touch, you can make it hidden in the walls, desktops, and other parts of buttons. | Item Type: Electronic Switch Model: Touch Switch IC Chip: TTP223B Operating Voltage: 2V – 5.5V Output High (VOH): 0.8 x VCC Output Low (VOL): 0.3 x VCC Response Time (Low Power Mode): 220 ms Response Time (Touch Mode): 60 ms Length: 24 mm Width: 24 mm Height: 2 mm Weight: 0.6 g Shipping Weight: 0.085 kg Shipping Dimensions: 3 x 3 x 1 cm | arduino • touch • TTP223B • capacitive sensor |
|  | EMS-00017-A | Light Dependent Resistor (LDR) Module | EM - Electronic-Electrical Modules | EM Series / Generic Compatible, KEYESTUDIO, SunFounder, DFRobot | The LDR Module detects ambient light intensity and provides a digital output based on brightness level. It features an onboard potentiometer to adjust sensitivity and threshold detection. Ideal for automatic lighting systems, Arduino projects, and light-based automation applications. | Model: Light Dependent Resistor Module Operating Voltage (V): 3.3 – 5 Operating Current (mA): 15 Output Type: Digital (DO) Adjustable Threshold: Yes (via Potentiometer) Sensor Type: Photoresistor (LDR) Mounting Hole: M3 Indicator LEDs: Power LED, Status LED Pin Configuration: VCC, GND, DO Length (mm): 36 Width (mm): 14 Height (mm): 8 Weight (g): 3 Shipping Weight: 0.005 kg Shipping Dimensions (L x W x H): 4 x 3 x 2 cm | LDR Module • Light Sensor • Photoresistor Module • LM393 Sensor • Arduino Light Sensor |
|  | EMS-00019-A | Soil Moisture sensor | EM - Electronic-Electrical Modules | Sensor Probe Manufacturer, Comparator Module Manufacturer, IC Manufacturer | The Soil Moisture Sensor Module (YL-69 + FC-28) is a resistive soil humidity detection device used to measure water content in soil. It provides both analog (AO) and digital (DO) outputs with adjustable sensitivity using an onboard LM393 comparator. Ideal for smart irrigation systems, plant monitoring, Arduino, and IoT-based environmental projects. | Sensor Type: Resistive Soil Moisture Sensor Operating Voltage: 3.3V – 5V DC Output Type: Analog (AO) and Digital (DO) Digital Output: 0 or 1 (TTL Logic) Measurement Principle: Resistance-based conductivity measurement Sensitivity Adjustment: Onboard Potentiometer (for digital threshold) Probe Dimension: Approx. 6 cm x 3 cm Cable Length: 20 cm Interface Pins: VCC, GND, DO, AO Shipping Weight: 0.02 kg Shipping Dimensions (cm): 8 x 6 x 3 | Arduino Compatible • Soil Moisture Sensor • YL-69 • FC-28 • LM393 • Resistive Soil Sensor • Irrigation Sensor |

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|---|--------------------|-----------------------------------|------------------------------------|---|---|--|---|
|  | EMX-00001-A | Arduino Uno | EM - Electronic-Electrical Modules | Arduino, Elegoo, HiLetgo, Keyestudio | The Arduino Uno R3 is a microcontroller development board based on the ATmega328P, designed for building interactive electronic projects. It features 14 digital I/O pins, 6 analog inputs, a 16 MHz clock, USB connectivity, and operates at 5 V. Compatible with the Arduino IDE and a wide range of shields, it is widely used in education, prototyping, and embedded system development. | Board Type: Uno With Cable: Yes Operating Voltage: 5 V Input Voltage Range: 6 – 20 V Analog I/O Pins: 6 Digital I/O Pins: 14 (6 x PWM) DC Current per I/O Pin: 40 mA Clock Speed: 16 MHz SRAM: 2 KB EEPROM: 1 KB Flash Memory: 32 KB Dimensions (L x W x H): 75 x 54 x 12 mm Weight: 28 g (without cable), 54 g (with cable) | ATmega328P • 5 V Board • 16 MHz Crystal • USB Interface • Microcontroller • Educational Kit • Open-Source Hardware • Breadboard Compatible |
|  | TLP-00001-A | 40W Hot Melt Glue Gun (11mm) | TL - Tools | Generic / OEM, Stanley, Bosch, Pro'sKit | Standard temperature 40W hot melt glue gun designed for multipurpose bonding and repair applications. Features an ergonomic trigger mechanism for controlled glue dispensing and an integrated ON/OFF switch for safe operation. | Item Type: Hot Melt Glue Gun Color: Black Operating Voltage: 110–220 V AC Power Consumption: 40 W Melting Point: 190°C (±10°C) Compatible Glue Stick Diameter: 11 mm Weight: 180 g Shipping Weight: 0.2 kg Shipping Dimensions: 27 x 16 x 5 cm | Compatible with 11mm diameter glue sticks and suitable for DIY projects • electronics work • furniture repair • decoration • packaging • and household fixes. |
|  | TLP-00002-A | Soldering Iron Kit – 3-in-1 (25W) | TL - Tools | TLP Series / Generic Compatible, Noel, Pro'sKit, Velleman | Be it beginner, hobbyist, or professional, soldering iron kits are essential tools for building circuit boards, repairing electronics, jewelry making, welding, and other precision tasks. This kit combines the basic tools used in general-purpose soldering work and includes necessary components required for soldering at your work desk. Best suited for DIY beginners, college project teams, and professional electronics hobbyists. | Item Type: Kit Soldering Iron Power: 25 Watt Suitable For: Beginner to Professional Shipping Weight: 0.4 kg Shipping Dimensions: 20 x 7 x 6 cm | Soldering Kit • 25W Soldering Iron • 3-in-1 Kit • DIY Soldering Set • Electronics Repair Kit |