

FEATURED PRODUCTS

120 & 220VAC Tubeaxial Fans



COMMONWEALTH™

* Web Code: ABJ

Fans and Accessories on pages 84-88

Here are some of our most popular AC tubeaxial fans. Select from multiple manufacturers and a variety of specifications.

Part No.	Manufacturer	Mfr. Part No.	Voltage (VAC)	Size mm (W x H x D)	Air Flow (CFM)	Bearing	Connection	Pricing		
								1	10	100
213867	Fulltech	UF-60D11HBWH-R	120	60 x 60 x 30	10.2	Ball	12" Leads	\$17.95	\$16.49	\$14.49
300600	Fulltech	UF80A11BWH-R	120	80 x 80 x 38	29	Ball	12" Leads	15.95	14.49	11.49
2135275	Common Wealth	FP-108JC	120	92 x 92 x 38	45	Sleeve	12" Leads	13.95	12.49	9.95
2230379	EBM Pabst	4800N	120	120 x 120 x 38	57.1	Sleeve	Terminals	14.95	13.49	10.95
102884	Sunon	SP100A-1123XBT.GN	120	120 x 120 x 38	117	Ball	Terminals	14.95	13.95	11.95
2230141	Fulltech	UF13A11BTH	120	127 x 127 x 38	120	Ball	Terminals	19.95	17.95	14.49
2230117	Adda	AA8252HB-AT	220	80 x 80 x 25	21	Ball	Terminals	12.95	11.95	9.95
303459	Sunon	DP200A-2123XBL	220	120 x 120 x 38	117	Ball	12" Leads	15.95	14.95	12.95
2230424	Common Wealth	FP-108EX(S-1)	220	172 x 150 x 51	210	Ball	Terminals	34.95	31.49	24.95
2258419	Fulltech	UF-12A1223BWH	115/230	120 x 120 x 38	92/106	Ball	12" Leads	15.95	14.49	11.59

NEW MARKED IN PINK



2230379



High Efficiency Compact Enclosed Power Supplies

* Web Code: LRL

Enclosed Power Supplies on pages 104-107

These compact power supplies are rated for household appliances, industrial automation machinery, industrial control systems, mechanical and electrical equipment and electronic instruments.

- AC input selectable by switch *LRS-150F is full range input, auto-switching
- No load power consumption <0.5W • Cooling by free air convection • Compact 1U low profile

Part No.	Mfr. Part No.	Output		Size (L" X W" X H")	Ripple&Noise (mV p-p)*	Load Reg. (±%)	Line Reg. (±%)	Eff. (%)	Pricing	
		Voltage @ Current	Pwr. (W)						1	10
2257774	LRS-150F-5	+5V @ 0-22A	110	6.3 x 2.7 x 1.5	100	0.5	0.5	85	\$23.49	\$19.95
323821	RS-150-5	+5V @ 0-26A	130	7.8 x 3.9 x 1.5	80	1	0.5	78	23.95	20.95
2257723	LRS-150-12	+12V @ 0-12.5A	150	6.3 x 2.7 x 1.5	150	0.5	0.5	87.5	19.95	17.49
2257782	LRS-150F-12*	+12V @ 0-12.5A	150	6.3 x 2.7 x 1.5	150	0.5	0.5	87.5	22.49	18.95
323839	RS-150-12	+12V @ 0-12.5A	150	7.8 x 3.9 x 1.5	150	0.5	0.5	83	23.95	20.95
2257731	LRS-150-15	+15V @ 0-10A	150	6.3 x 2.7 x 1.5	150	0.5	0.5	88.5	19.95	17.49
2257791	LRS-150F-15*	+15V @ 0-10A	150	6.3 x 2.7 x 1.5	150	0.5	0.5	89	22.49	18.95
323847	RS-150-15	+15V @ 0-10A	150	7.8 x 3.9 x 1.5	120	0.5	0.5	84	23.95	20.95
2257740	LRS-150-24	+24V @ 0-6.5A	156	6.3 x 2.7 x 1.5	200	0.5	0.5	89	18.95	15.95
2257803	LRS-150F-24*	+24V @ 0-6.5A	156	6.3 x 2.7 x 1.5	200	0.5	0.5	89	21.49	17.95
323855	RS-150-24	+24V @ 0-6.5A	156	7.8 x 3.9 x 1.5	120	0.5	0.5	86	24.95	22.49
2257766	LRS-150-48	+48V @ 0-3.3A	158.4	6.3 x 2.7 x 1.5	200	0.5	0.5	90	19.95	17.49
2257820	LRS-150F-48*	+48V @ 0-3.3A	158.4	6.3 x 2.7 x 1.5	200	0.5	0.5	90	22.49	18.95
323863	RS-150-48	+48V @ 0-3.3A	158.4	7.8 x 3.9 x 1.5	200	0.5	0.5	87	24.95	22.49

NEW MARKED IN PINK



RS-150



LRS-150

12-Button and 16-Button Keypads with Matrix Output

Keypads are great for alarm systems, kiosks, data entry, or industrial control panels. These keypads are in a matrix configuration so each of the buttons can be read from the single 8-pin header. The 12-button keypads look just like a telephone pad with numbers 0-9, star and pound, and the 16-button keypads have additional letters A through D.

JAMECO ValuePro

* Web Code: XBA

Part No.	Description	1	10	100
2237802	3x4 matrix 12-button keypad, 8-pin, 0.1" pitch, 12VDC @ 20mA, 3" x 2.2" x 0.6"	\$4.95	\$4.49	\$3.95
2131055	4x4 matrix 16-button keypad, 8-pin, 0.1" pitch, 24VDC @ 20mA, 2.5" x 2.6" x 0.4"	7.25	6.49	5.75
169245	4x4 matrix 16-button keypad, 8-pin, 0.1" pitch, 24VDC @ 20mA, 3" x 2.8" x 0.6"	9.25	8.25	7.49

Keypads on page 74

2237802



Wireless Internet of Things and Electromechanical Products

NEW MARKED IN PINK

* Web Code: ARD

The Feather HUZZAH ESP8266 board is light, small and designed for untethered projects using the built-in ESP8266 WiFi module. The IoT starter kit enhances the Feather with some elements like sensors and LEDs to experiment with your first IoT project. And don't forget a slip ring for your "rolly" projects, so they can freely twist and turn without tangling up the wires.

Arduino Boards & Sensors on pages 142-144

Part No.	Mfr. Part No.	Description	Price
2240083	2821	Feather HUZZAH MCU, ESP8266 WiFi, LiPo charge circuit, 9 GPIO, 4MB flash, 2" x 0.9" x 0.3"	\$17.95
2240091	2680	IoT starter kit w/ Feather MCU, PIR, magnetic & vibration sensor, plus more	39.95
2240075	736	Slip ring with flange, 22mm dia., 6 wires, 240V/2A	15.95
2240139	328	3.7V 2500mAh lithium ion polymer battery. 2mm pitch JST connector	18.95

2240091



3MHz Direct Digital Synthesis Signal Generator with Voltage Display

Test Equipment on pages 113-117

This economical function generator with high accuracy and high stability output is based on Direct Digital Synthesis technology and offers a frequency range of 3MHz and you can select Sine, Square, Triangle and TTL waveform outputs. The DDS platform also provides user friendly operation.

NEW MARKED IN PINK

- Freq. range: 0.1Hz - 3MHz (sine, square); 0.1Hz - 1MHz (triangle) • Attenuator: -40dB ±1dB • Impedance: 50Ω ±10%
- 6-digit LED display • Low distortion Sine wave: -55 dBc, 0.1 Hz to 200 kHz • Constant current source circuit

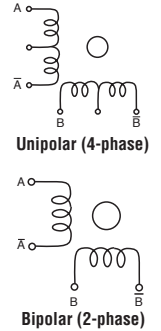
Part No.	Mfr.	Mfr. Part No.	Bandwidth	# of waveforms	Price
2244050	Instek	SFG-1013	3MHz	4	\$189.95



JAMECO ReliaPro

Bipolar & Unipolar Stepper Motors

* Web Code: UBN



The world is constantly in motion. Keep all your projects moving with these motors.

Motors on pages 79-83

Part No.	Drive System	Rated Voltage (VDC)	Step Angle (°/5%)	Phase Resis. (Ω)	Curr. (mA)	Phase Inductance (mH)	Detent Torque (g-cm)	Holding Torque (g-cm)	Mounting Hole Space (in.)	Mounting Holes (in.)	Shaft Dia. (in.)	Shaft Length (in.)	Motor Dia. (in.)	Motor Depth (in.)	Pricing		
															1	5	25
237825	Unipolar	5	7.5	10	500	16	45	110	1.38	0.14	0.08	0.35	0.98	0.56	\$9.95	\$8.95	\$7.95
2138812	Unipolar	7	7.5	20	350	11	125	450	1.59	0.12	0.078	0.47	1.37	0.85	8.95	7.95	6.95
155433	Unipolar	12	1.8	30	400	22	220	2000	1.73	0.10	0.20	0.90	1.70	1.50	20.95	18.95	16.95
238538	Unipolar	12	1.8	30	400	28	250	3400	1.22	0.10	0.20	0.95	1.67	1.89	21.95	19.95	17.95
155460	Bipolar*	12	1.8	32	400	32	122	2243	1.73	0.10	0.20	0.60	1.70	1.30	21.95	19.95	17.95
2158557	Bipolar†	24	7.5	50	550	N/A	177	193	1.25	0.27	0.08	0.22	1.25	0.53	1.95	1.75	1.49

*155460: Dual shaft † Manufacturer: Mitsumi

Regulated Switching Table-Top Power Supplies – 3-Wire AC Input

NEW MARKED IN PINK

Table-Top Power Supplies on pages 94-97



GlobTek®

* 3-9V Web Code: TTF

* 12-14V Web Code: TTW

* 15-24V Web Code: TTR

* 27-54V Web Code: TTT



2078338

Part No.	Mfr.	Mfr. Part No.	Output		Output Connector	Size (H" x W" x D")	Pricing	
			Voltage @ Current	Power (W)			1	10
2227815	Globtek	TR9CA2000LLP-Y-D	5VDC @ 2.6A	13	2.5mm x 5.5mm	3.4 x 1.8 x 1.2	\$12.95	\$11.95
2224059	Sparkle Power	AD025DGAA1-J25	5VDC @ 5A	25	2.5mm x 5.5mm	4.3 x 2.0 x 1.2	14.95	13.49
2144956	ReliaPro	GQ65-060330-E1	6VDC @ 3.3A	20	2.1mm x 5.5mm	3.6 x 2.0 x 1.3	12.95	11.49
2227823	Globtek	TR9CE1250LCP-Y	12VDC @ 1.25A	15	2.5mm x 5.5mm	3.4 x 1.8 x 1.2	15.95	14.49
2197927	ReliaPro	DZ036DL120300G	12VDC @ 3A	36	2.1mm x 5.5mm	4.3 x 1.9 x 1.3	13.95	12.49
2230387	Arndt	LSE0107A1240	12VDC @ 3.33A	40	2.5mm x 5.5mm	4.5 x 2.0 x 1.2	14.95	13.49
2208956	ReliaPro	KPL-060F	12VDC @ 5A	60	2.1mm x 5.5mm	4.5 x 2.0 x 1.2	15.95	14.49
2197919	ReliaPro	DZ036DL240150G	24VDC @ 1.5A	36	2.1mm x 5.5mm	4.3 x 1.9 x 1.3	11.95	10.95
2208948	ReliaPro	KPL-060M	24VDC @ 2.5A	60	2.1mm x 5.5mm	4.5 x 2.0 x 1.2	15.95	14.49
2078338	Mean Well	GS90A24-P1M	24VDC @ 3.75A	90	2.5mm x 5.5mm	5.9 x 2.3 x 1.2	28.95	24.95
2208892	Mean Well	GS120A24-HQU	24VDC @ 5A	120	2.5mm x 5.5mm	6.6 x 2.6 x 1.4	32.95	29.95
2228931	FSP Group	FSP025-1AD207A	48VDC @ 0.52A	25	2.5mm x 5.5mm	3.3 x 2.0 x 1.3	11.95	10.95
1952396	Mean Well	GS60A48-P1JU	48VDC @ 1.25A	60	2.1mm x 5.5mm	4.9 x 2.0 x 1.2	18.95	16.95

AC-to-DC "Slimline" Regulated Switching Wall Adapters

* Web Code: CBQ

Wall Adapters on pages 89-94 & 97

These wall adapters have a small unique AC plug orientation only taking up one slot on multiple outlet sockets. This allows you to utilize all the sockets. Save space charging your devices with the slimline of wall adapters.



JAMECO ReliaPro

Part No.	Mfr.	Mfr. Part No.	Output		Output Connector	Size (H" x W" x D")	Pricing	
			Voltage @ Current	Power (W)			1	10
2211098	PhiHONG	PLA05A-050-R	5VDC @ 1A	5	2.1mm x 5.5mm	2.6 x 1.1 x 1.5	\$6.95	\$6.25
2188537	CUI	EPAS-101W-05	5VDC @ 2A	10	2.5mm x 5.5mm R/A	2.4 x 1.7 x 1.0	6.95	6.25
252786	ReliaPro	S15AB090150H0650-R	9VDC @ 1.5A	13.5	2.1mm x 5.5mm	2.9 x 1.3 x 2.2	12.95	11.95
2215734	Arndt	MT12-Y120100-A1	12VDC @ 1A	12	2.1mm x 5.5mm	2.7 x 1.5 x 1.3	7.95	6.95
1950497	ReliaPro	GQ30-120200-BU	12VDC @ 2A	24	2.1mm x 5.5mm	2.9 x 1.3 x 2.2	15.95	14.49
2215726	Arndt	P03WF-120B	12VDC @ 2.5A	30	2.1mm x 5.5mm	3.0 x 1.4 x 2.0	10.95	9.95
2229941	ReliaPro	MTR-16109#	24VDC @ 0.5A	12	2.1mm x 5.5mm	2.9 x 1.3 x 2.2	11.95	10.95
2208972	ReliaPro	KSASB0242400100VU	24VDC @ 1A	24	2.1mm x 5.5mm	3.5 x 1.7 x 1.3	12.95	11.49

#Level VI efficiency



2211098

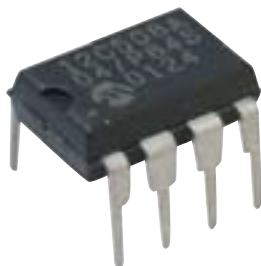
Microcontrollers

* Web Code: PAV

Microcontrollers on page 7

These popular microcontroller ICs offer a variety of advantages over others because of their low cost, detailed application notes and serial programming capabilities.

- Data BUS width: 8-bit



145040

Part No.	Mfr.	Mfr. Part No.	Package	Memory Size/Type	Max Speed	I/O	1	10	100
145040	Microchip	PIC12C508A-04/P	DIP-8	512 OTP	4 MHz	5	\$1.05	\$0.95	\$0.85
223790	Microchip	PIC12F629-I/P	DIP-8	1K Flash	20 MHz	6	.95	.89	.85
2151267	Atmel	ATTINY45-20PU	DIP-8	4K Flash	20 MHz	6	1.95	1.75	1.55
2151312	Atmel	ATTINY85-20PU	DIP-8	8K Flash	20 MHz	6	4.49	3.95	3.49
145111	Microchip	PIC16F84A-04/P	DIP-18	1K Flash	4 MHz	13	3.95	3.59	3.29
204089	Atmel	AT89C4051-24PU	DIP-20	4K Flash	24 MHz	1	2.45	2.15	1.75
247038	Microchip	PIC16F877A-I/P	DIP-40	8K Flash	20 MHz	3	4.95	4.49	4.25
2139111	Atmel	ATMEGA328P-PU	DIP-28	32K Flash	20 MHz	23	3.59	3.25	2.95
168920	Atmel	AT89C52-24PC	DIP-40	8K Flash	24 MHz	32	2.95	2.49	1.95
662637	Atmel	AT89S52-24PU	DIP-40	8K Flash	24 MHz	32	2.49	2.25	1.95
248031	Microchip	PIC18F452-I/P	DIP-40	32K Flash	40 MHz	34	6.95	5.95	5.59

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



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Featured Products

3 LEVELS OF SAVINGS
 NAME BRANDS HOUSE BRANDS SPECIAL BUY

JAMECO KitPro Workbench and Electronic Kit Super Combos

* Web Code: SPC

NEW MARKED IN PINK

Super Combo bundles are popular products that compliment each other packed into a single SKU so you can get the best bang for your buck. If you ever need a replacement or an extra, each of the components in these bundles are available separately.

Test Equipment & Tools on pages 113-130

Part No.	Description	Price
2244041	Tool: Crimper, stripper, cutter, plier, screwdriver, tweezers, heat sink clip	\$33.95
2244033	Solder: 35W iron, 6-piece tool kit, acid brush, heat sink clip, solder wick, bottle	34.95
2244121	DMM: Meter, alligator, minigrabber & mini clip test leads, solder starter kit	94.95
2243911	Arduino: Ardweeny, breadboard, 5V VREG kit, FTDI programmer, wall adapter	57.95
2244148	Arduino: Uno, Grove sensor starter (shield & 7 sensors), USB cable & 9V	87.95
2244130	Arduino: Uno, 27-piece Gravity sensor set, wall adapter, breadboard, jumper wire	144.95



Raspberry Pi 3 and Accessories

* Web Code: RPI

NEW MARKED IN PINK

The improved third generation Raspberry Pi has a 64-bit quad-core 1.2GHz ARMv8 processor, built-in 802.11n wireless LAN and Bluetooth 4.1 Low Energy (BTLE). It still has 1GB of RAM, 4 USB ports, an Ethernet port, 40 GPIO pins and full size HDMI port, and it has the same form factor as the previous Pi 2. You can make a computer, create your own games, monitor local weather conditions, or add a Pixy Cam vision sensor to create an advanced robot that can be taught to recognize objects.

Details on page 145

Part No.	Description	Price
2237790	Raspberry Pi 3 Model B, quad-core BCM2837, 1GB RAM, 64-bit, 1.26GHz, 4x USB ports, WiFi, Bluetooth	\$49.95
2240219	Raspberry Pi 3 accessory bundle (power, cables and enclosure)(microSD card with OS not included)	79.95
2223785	Enclosure for Pi 3 with smoked black enclosure with clear top. 3.7" x 2.5" x 1.0"	9.95
2213472	Pure copper heat sink for Raspberry Pi CPU, self-adhesive, 0.52" x 0.43" x 0.22"	1.95



JAMECO ValuePro LED Assortments in Locking Flip-Top Cases

* Web Code: LAD

NEW MARKED IN PINK

If you use a lot of LEDs in your projects, these assortment kits offer a variety of colors and package types so you'll always have options. Whether you want clear, color diffused, or RGB of either polarity, these LED collections come in convenient 10-compartment flip-top cases so you can stay organized.

LEDs on pages 18-22

Part No.	Description	Price
2238320	300-piece 5-color clear round top, (200) 3mm, (100) 5mm red, orange, yellow, green, blue	\$9.95
2238338	300-piece 5-color clear round top, (200) 3mm, (100) 5mm red, green, blue, fast & slow rainbow RGB	9.95
2238346	300-piece 5-color clear flat top, (200) 3mm, (100) 5mm red, yellow, green, blue, white	11.95
2259526	300-piece 6-color diffused round top, (200) 3mm, (100) 5mm red, orange, yellow, green, blue, white	11.95
2238354	180-piece RGB & rainbow fade clear round top, (80) 3mm, (100) 5mm	12.95



JANDEL Convergent Photoelectric Sensor

VS2 Series PNP Sourcing

Sensors on page 74

NEW MARKED IN PINK

- Extremely low profile self-contained miniature sensors
- Visible red sensing beam
- Operating voltage: 10-30VDC
- Material: Black ABS/acrylic lens
- Connector: 3-pin Pico QD
- Two LED indicator: Green – ON steadily (power to sensor is ON); Green – Flashing (output overload); Yellow – ON steadily (light is sensed)
- Protection against reverse polarity and transient voltages
- PNP light operate (sourcing)
- Amperage: 50mA
- Temperature: -20°C to +55°C
- Operating conditions: -20°C to +55°C
- 3-wire hookup; output load capacity to 50mA
- Contact form: SPST-PNP
- Range: 1.2"
- Cable length: 6.5'

Part No.	Mfr. Part No.	Description	1	10
2231304	VS2AP5CV30	Convergent photoelectric sensor	\$69.95	\$62.95



sparkle labs Beginner Electronics Kits

NEW MARKED IN PINK

Getting young students started early with electronic design can provide them with fundamental knowledge and problem-solving skills which can prove to be invaluable in the future. The manual is made to be fun and engaging, so keeping minds interested will be easy. All breadboard components are reusable. Discover Arduino kit includes Discover Electronics kit, Arduino Uno R3 and USB cable.



Electronic Kits on pages 138-141

Part No.	Description	No. of Pcs.	Price
2237343	SunMod - Solar Hacking Kit	3	\$19.95
2119662	Discover Electronics Kit v3	130	54.95
2237335	Discover Arduino Kit	132	84.95

JAMECO BenchPro Test Leads, Plugs and Posts

NEW MARKED IN PINK

These are must have accessories for electronic test equipment, school labs, work benches and toolboxes. Alligator clips are great for quickly assembling circuits and connecting components to wires. Binding posts and banana plugs are another way to make reliable connections.

* Web Code: RAC



Test Leads on pages 118-119

Part No.	Description	1	10
2237677	(3) 21" alligator clip test leads, 24 AWG, red/black/green	\$2.95	\$2.65
10444	(10) 21" alligator clip test leads, 24 AWG, 5 colors	5.95	5.39
2210239	(10) 21" alligator clip test leads, 16 AWG, 5 colors	9.95	8.95
2244295	Screw type binding post, chassis mount, red	1.25	1.09
2244308	Screw type binding post, chassis mount, black	1.25	1.09

JAMECO ReliaPro

AC-to-AC Wall Adapters

* Web Code: ABQ

NEW MARKED IN PINK

Wall Adapters on pages 89-94 & 97

These AC to AC wall adapters convert common 120 volt AC mains down to lower voltages for use with electronic devices.

- Input voltage: 120VAC @ 60Hz
- UL/CSA rated



2227604

Part No.	Cross Ref. No.	Output		Output Connector (ID x OD)	Size (L" x W" x H")	Pricing	
		Voltage @ Current	Power (W)			1	10
2230651	ABU050050R	5V @ 0.5A	2.5	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	\$7.95	\$6.95
100061	ACU090050	9V @ 0.5A	4.5	2.1mm x 5.5mm F	2.7 x 1.9 x 1.7	8.95	7.95
10081	ACU120100	12V @ 1A	12	2.1mm x 5.5mm F	2.5 x 2.0 x 1.6	9.95	8.95
2227604	GPU481202000WA00	12V @ 2A	24	2.5mm x 5.5mm F	3.3 x 2.2 x 1.9	14.95	13.49
171408	ACU140050C6951	14V @ 0.5A	7	2.1mm x 5.5mm F	2.8 x 2.0 x 1.6	8.95	7.95
2227612	ADU160100-2.5	16V @ 1A	16	2.5mm x 5.5mm F	2.5 X 2.2 X 1.9	11.95	10.95
2179622	AFU180200	18V @ 2A	36	2.1mm x 5.5mm F	3.4 x 2.7 x 2.1	12.95	11.95
2227639	GPU572401500WA00-2.5	24V @ 1.5A	36	2.5mm x 5.5mm F	3.2 x 2.6 x 2.2	14.95	13.49
2197548	GPU572402000WA00	24V @ 2A	48	2.1mm x 5.5mm F	3.3 x 2.6 x 2.2	15.95	14.49
2229386	MGT2450P	24V @ 2.1A	50	Screw terminals	3.2 x 2.2 x 1.9	17.75	15.95

ALPHA

Linear Taper Slide Potentiometers

* Web Code: XGM

NEW MARKED IN PINK

Potentiometers on pages 37-39



2237731

These slide potentiometers allow you to control resistance from left to right or up and down depending on installation orientation. Slide potentiometers also provide a more visual indicator of the amount of resistance applied.

Part No.	Mfr. Part No.	Ohms	Travel	Mounting	mWatts	Volts	Tolerance	1	10	100
2237731	RA2043F-20-10EB1-5K	5K	20mm	PC	50	200	20%	\$1.75	\$1.49	\$1.25
2237749	RA2043F-20-10EB1-10K	10K	20mm	PC	50	200	20%	1.75	1.49	1.25
2237757	RA3043F-20-10EB14	10K	30mm	PC	50	200	20%	1.95	1.75	1.49
2203961	RA6043F-20-10EB1-B14	10K	60mm	PC	50	200	20%	1.95	1.75	1.59

OWI

Hydraulic Arm Edge Kit

* Web Code: NRG

Electronic Kits on pages 138-141

NEW MARKED IN PINK

Compliment your engineering, math, science, and technology learning strategy. No battery or motor required, it's powered by water! You will have total control to manipulate axes movement via lever controllers and visualize the science principles of a hydraulic system and its application.

- No soldering or batteries required
- Ages 10+
- Six axes to control
- Horizontal reach: 12.4", Vertical: 16.35"
- Base rotation: 270°, wrist: 98°, elbow: 44°
- Gripper opens 1.9" or use suction gizmo & can lift 1.75 oz.

Part No.	Manufacturer	Mfr. Part No.	No. of pieces	Exp. Level	1	5
2236922	OWI	OWI-632	229	Beginner	\$39.95	\$37.95

Powered by Water



JAMECO BenchPro

Handheld Digital Multimeters

* Web Code: DMM

Digital Multimeters on pages 114-116

NEW MARKED IN PINK

These digital multimeters have all the basic functions you need for measuring DC or AC voltages, current or resistance. These meters are also handheld size making them easier to take with you in your toolbox.

Part No.	Mfr. Part No.	No. of Function	Display Count	Size (H" x W" x D")	Feature	Price
2230002	DT830D	8	1999	5.0 x 2.8 x 1.1	Square wave generator	\$9.95
2238397	DT-182	8	1999	3.9 x 2.0 x 0.9	Mini, battery test	10.95
2247381	GSM-881	6	6000	5.0 x 3.0 x 1.4	LED lamp	19.95



2247381

MADLAB

MadLab Electronic Kits

* Web Code: MLP

Electronic Kits on pages 138-141

NEW MARKED IN PINK

MadLab offers a range of electronic kits suitable for beginners needing practice at soldering up to advanced for expert constructors. Each kit comes with a professional printed circuit board, components and full assembly instructions. Soldering tools and batteries are required.

Part No.	Mfr. Part No.	Description	Exp. Level	Price
2251735	MLP107	My Little Alien: LED eyes, 7pcs, 9V battery required	Beginner	\$14.95
2251874	MLP109	Electric Telegraph: practice morse, 9V bat. required	Beginner	19.95
2251840	MLP105	Junior Theremin: touchless musical instrument, 9V required	Intermediate	19.95
2251823	MLP103	Atom Heart: blue LED ring like Arc Reactor, 2x CR2025 required	Intermediate	32.95
2244228	JESC-MLP109x2	Telegraph Super Combo, two kits & two 9V batteries	Beginner	39.95



2251874

JAMECO KitPro

Breadboard & Jumper Wire Prototyping Super Combos

* Web Code: HAC

NEW MARKED IN PINK

Breadboards and jumper wire go together like peanut butter and jelly. We've made it easy to buy and save. As with all our other Super Combos, the components are all available separately, so if your breadboard is now a nest of wire, it's easy to replace one or both!

Breadboards & Jumper Wires on page 131

Part No.	Description	Price
2244105	70 pc wire jumper kit with 14 lengths, 10 colors and 400 point breadboard	\$10.95
2134993	70 pc wire jumper kit with 14 lengths, 10 colors and 830 point breadboard	12.95
2244113	350 pc wire jumper kit with 14 lengths, 10 colors and 3220 point breadboard	43.95
2244084	170 point breadboard with single center terminal strip, 1.3"x1.9", red	2.95
2244092	170 point breadboard with single center terminal strip, 1.3"x1.9", blue	2.95
2155452	170 point breadboard with single center terminal strip, 1.3"x1.9", white	2.95



2244113

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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High Power Enclosed Power Supplies * Web Code: HHP

These compact power supplies are rated for household appliances, industrial automation machinery, industrial control systems, mechanical and electrical equipment and electronic instruments. Built-in Power Factor Correction function.

- No load power consumption <0.5W
- Cooling by free air convection
- Compact 1U low profile



RSP-1500

Part No.	Mfr. Part No.	Output		Size (L" x W" x H")	Ripple&Noise (mV p-p)*	Load Reg. (±%)	Line Reg. (±%)	Eff. (%)	Pricing	
		Voltage @ Current	Pwr. (W)						1	10
1585717	RSP-1000-24	+24V @ 0-40A	960	11.6 x 5.0 x 1.6	150	0.5	0.5	88	\$206.95	\$206.95
1585725	RSP-1000-48	+48V @ 0-21A	1008	11.6 x 5.0 x 1.6	150	0.5	0.5	90	206.95	206.95
694938	RSP-1500-24	+24V @ 0-63A	1512	10.9 x 5.0 x 3.3	150	0.5	0.5	90	303.95	303.95
694954	RSP-1500-48	+48V @ 0-32A	1536	10.9 x 5.0 x 3.3	200	0.5	0.5	91	303.95	303.95
2106714	RSP-2400-24	+24V @ 0-100A	2400	10.9 x 7.0 x 2.5	150	0.5	0.5	90	384.95	384.95
2106722	RSP-2400-48	+48V @ 0-50A	2400	10.9 x 7.0 x 2.5	200	0.5	0.5	91.5	384.95	384.95
2108921	RSP-3000-48	+48V @ 0-62.5A	3000	10.9 x 7.0 x 2.5	200	0.5	0.5	90.5	417.95	417.95

*Primary output



Industrial Table-Top Power Supplies * Web Code: DDZ

- LED indicator for power on, fully enclosed plastic case, Class I power with earth pin (3-pole AC inlet), Universal AC input (full range 85-264 VAC)
- Energy Level VI, no load power consumption (<0.075W for GST60A, <0.15W for GST90A/120A)
- Operating temp: -30 to +70°C
- 3-year warranty



2223460

Part No.	Mfr. Part No.	Output		Output Connector (ID x OD)††	Input VAC @ Hz	Size (L" x W" x H")	↑DC Cords	Pricing	
		Voltage @ Current	Pwr. (W)					1	10
2224382	GST60A12-P1J	+12V @ 5A	60	2.1 x 5.5mm F2	90-264 @ 47-63	4.9 x 2.0 x 1.2	3.3'	\$16.95	\$14.49
2224411	GST60A24-P1J	+24V @ 5A	120	2.1 x 5.5mm F2	90-264 @ 47-63	4.9 x 2.0 x 1.2	3.3'	16.95	14.49
2223460	GST90A12-P1M	+12V @ 6.6A	79.2	2.1 x 5.5mm F2	90-264 @ 47-63	5.7 x 2.4 x 1.3	3.3'	26.95	23.95
2223494	GST90A24-P1M	+24V @ 3.75A	90	2.1 x 5.5mm F2	90-264 @ 47-63	5.7 x 2.4 x 1.3	3.3'	26.95	23.95
2223582	GST120A12-R7B	+12V @ 8.5A	98.4	4-pin DIN male	85-264 @ 47-63	6.6 x 2.6 x 1.4	4'	40.95	37.49
2223646	GST120A24-P1M	+24V @ 5A	120	2.5 x 5.5mm F2	85-264 @ 47-63	6.6 x 2.6 x 1.4	4'	40.95	37.49
2223611	GST120A24-R7B	+24V @ 5A	120	4-pin DIN M	85-264 @ 47-63	6.6 x 2.6 x 1.4	4'	40.95	37.49
2226468	GST160A48-R7B	+48V @ 3.34A	160	4-pin DIN M	85-264 @ 47-63	6.9 x 2.8 x 1.4	4'	48.95	45.95

† AC cord is not included, we recommend 3-conductor power cord (P/N 38050, pg 102) †† F2: Female center positive

AC-to-DC Interchangeable Wall Adapters * Web Code: NBH

When traveling internationally, keep all your devices charged up with these adapters with interchangeable AC clips. AC Clips sold separately except 2202790 which includes: US, UK, EU, AUS plugs. See page 92 for AC plug clips.

Part No.	Mfr. Part No.	Voltage @ Current	Power (W)	Output Connector	Size (H" x W" x D")	1	10
228785	PSA11R-033	3.3V @ 2A	6	2.1mm x 5.5mm	3.3 x 1.8 x 1.3	\$8.95	\$7.95
2202790	TR10R050-1	5V @ 1.6A	8	2.1mm x 5.5mm	2.8 x 1.7 x 1.3	6.95	6.25
2202896	PSA21R-090	9V @ 1.67A	15	2.1mm x 5.5mm	3.9 x 2.3 x 1.2	9.95	8.95
2258689	PSAC12R-120-R#	12V @ 1A	12	2.1mm x 5.5mm	2.8 x 1.9 x 1.2	15.95	14.49
228849	PSA21R-120	12V @ 1.67A	20	2.1mm x 5.5mm	3.9 x 2.3 x 1.2	12.95	11.49
2082345	GE12I24-P1J	24V @ .63A	15	2.1mm x 5.5mm	2.8 x 1.6 x 1.5	9.49	8.49

Level VI CEC



2202790

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