12 VDC LED LIGHT STRIPS

Adhesive-backed ribbon with surface-mount ultrabright LEDs. Ideal accent lighting in auto or home. Dimmable. Can be cut every third LED or 50mm (approx. 0.2") and each segment can be lit independently. Wires can be soldered directly to solder spots on ribbon tape. 5 Meters, 100 segments per continuous strip. Can be connected end-to-end for longer strips. Can be purchased in 2" (3-led) segments.

Cool-white CAT# LS-12-CW
Warm-white CAT# LS-12-WW
$1.00 per 3-led segment
10 segments 90¢ per segment
100 segments 75¢ per segment

Neutral-white CAT# LS-12-NW
$1.50 per 3-led segment
10 segments $1.30 per segment
100 segments $1.00 per segment

ECONOMY MODULES

COOL-WHITE
Very bright, but less bright than our other modules. 3.5" wires between modules.
20 modules per string. 0.72W per module

CAT# LS-200CW $1.40 per module
20 modules for $1.10 per module
100 modules for 85¢ per module

RF REMOTE CONTROL FOR RGB LED STRIPS

Allows flashing, sequencing and dimming of tri-color LED strip, CAT# LS-22.
Will operate up to 5 strips, 1500 LEDs. Operates on 12-24Vdc. Input via screw terminals or 2.5mm coax power plug. Power supply not included.

Cool-white CAT# LS-12-CW
Warm-white CAT# LS-12-WW
$4.50 each

Warm-white CAT# LS-12-WW
$4.50 each

FUSION 5”/6” DOWNLIGHT, 9 WATT, N-W, 4-PACK

Dimmable 9W retrofit lamp. Fits 5" / 6" cans, 120 Vac screw base. 650 lumens. Dimmable 10% to 100%. Normal-white, 4K. Energy Star, cULus, RoHS, FCC. Sold in package of 4.

CAT # LMP-56NW $19.95 pack of 4

FUSE LAMPS

Table:

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<th>VOLTS</th>
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FAX YOUR ORDER 24 HOURS A DAY (818) 781-2653
1.5V BUTTON CELLS

AG-13  11.5mm diameter x 5.5mm. Cross to 357, AG-13, A-76, LR-44, V13GA and RW-82. Alkaline. CAT# BAT-7  75¢ each • 10 for $5.00

AG10/L1131  L1131. Cross to LR54, 189, RW89, AG10. 11.6mm diameter x 3mm high. CAT# BAT-11  75¢ each • 10 for 50¢ each

AG-3 Cross to AG-3, 392A, SR41, CX41, LR41W & others. 7.9mm dia. x 3.6mm. Alkaline. CAT# BAT-3  50¢ each • 10 for 40¢ each

SG-4 replaces AG-4, 626A, 377A, CX66W & others. 6.8mm dia. x 2.6mm. Silver oxide. CAT# BAT-4  95¢ each • 10 for 65¢ each

386S (silver oxide) replaces SG12/ G12/ SR43/ 386/ 548/6/RW24, 44 button cell. 0.45” diameter x 0.15” thick. For watches, cameras, games etc. CAT# BAT-8  95¢ each • 10 for $7.00

3V LITHIUM BUTTON CELLS

Lithium batteries have a very long shelf life, typically 10 years or more. These are not rechargeable.

CR1220. 40 mAh. 12.5mm dia. x 2mm thick. CAT# LBAT-62  $1.50 each

CR1616. 50 mAh. 16mm dia. x 1.6mm thick. CAT# LBAT-28  $1.00 each

CR1632. 3 volt. 16mm dia. x 3.2mm thick. CAT# LBAT-63  $1.00 each

CR1620. 70 mAh. 16mm dia. x 2mm thick. CAT# LBAT-58  85¢ each • 10 for 75¢ each

CR2016. 75 mAh. 0.787” diameter x 0.06” thick. CAT# LBAT-21  75¢ each • 10 for $6.50 • 100 for $45.00

CR2025. 150 mAh. 0.8” dia. x 0.1” thick. CAT# LBAT-44  $1.00 ea. • 10 for 75¢ ea.

CR2032. 180 mAh. 3 volt. 180 mAh. 0.8” dia. CAT # LBAT-20  $1.00 each

10 for $8.50 • 100 for $70.00

BR2335. 300 mAH. 23mm x 3.5mm. CAT# LBAT-64  $3.50 each

CR2450. 560 mAH. 0.96” diameter x 0.19” thick. CAT# LBAT-52  $3.50 each

CR2430. 620mAH. 24mm dia. x 3mm high. CAT# LBAT-2430  $1.90 each

COIN CELL HOLDERS, PC LEADS

Dia. CAT# Each
20mm BH-21 $1.00
20mm top load BH-25 75¢
25mm BH-23 $1.00

BATTERY TESTER

SE BT20. Test AAA, AA, C, D, 9V and button cell batteries. Features easy-to-read, color-coded reading meter. Separate scale for button cells. 4-3/8” x 2-3/8”. CAT# BC-22  $5.95 each

BATTERY LEVEL METER

Monitor battery usage in lead-acid and lithium-ion batteries. LCD displays percentage of voltage remaining in numerical and graphic format. Designed for use with 12, 24, 36 or 48V lead-acid batteries or 3 to 15 cell (8-63V) lithium-ion batteries. Battery symbol flashes when level reaches 5%. Black digits with blue backlight. Display size: 1.7” x 0.4”. Includes instructions. CAT# BT-3  $7.75 each

LI-PO BATTERY LEVEL METER

Prevent complete battery drain, increase battery life and preserve performance with this Li-Po battery voltage tester with low voltage buzzer alarm. Instantly outputs the voltage of individual cells and the total voltage of the battery pack to the digital LED meter by simply connecting to battery balance plug. Also onboard is a loud buzzer with flashing LED to indicate when the voltage of any individual cell drops below the adjustable threshold. For use with 1-8S Li-Po / Li-Ion / Li-Mn / Li-Fe. Board dimensions 40 x 25 x 10mm. CAT# LBT-79  $4.75 each

BATTERY BOXES FOR BREADBOARDING

Completely enclosed with slide-off cover. Integrated On-Off switch. 6” leads with machined male pins for use with solderless breadboards.

Holds three AAA batteries for 4.5 Vdc power. 2.49” x 1.45” x 0.62”. CAT # BH-33A  $3.65 each

Holds four AAA batteries for 6 Vdc power. 2.44” x 1.90” x 0.62”. CAT # BH-43A  $4.20 each

Holds three AA batteries for 4.5 Vdc power. 2.69” x 1.90” x 0.72”. CAT# BH-AA3  $4.50 each
3260 contacts.
4 terminal strips,
7 buss strips, 4 binding
posts mounted on an
aluminum back plate
7 7/8" x 8 3/4" x
3/8" high.
CAT# PBH-3260
$32.00 each

**ARDUINO UNO PROJECT HOLDER**

With BREADBOARD

Keeps your Arduino Uno
next to your bread-
board so jumper
wires stay in place. 400 point
breadboard with buss strips. Four threaded
standoffs and screws securely mount Uno to
plate. 160 x 106mm overall.
CAT# PBH-1 $9.50 each

**BREADBOARD POWER SUPPLY**

Module plugs into our solderless
breadboards and provides
5V and/or 3V to the rails as
well as other useful functions.
Works with our breadboard,
CAT# PB-400 (sold separately).
32 x 54 x 25mm (1.26" x 2.08" x 0.86").
CAT# MB-PS $4.75 each

**BATTERY BOXES FOR BREADBOARDING**

Completely enclosed with
slide-off cover. Integrated
On-Off switch. 6" leads with
machined male pins for use with
solderless breadboards.
Holds three AAA batteries for
4.5Vdc power. 2.49" x 1.45" x 0.62".
CAT # BH-33A $3.65 each
Holds three AA batteries for 4.5Vdc power.
2.69" x 1.90" x 0.72".
CAT# BH-AA3 $4.50 each
Holds four AAA batteries for 6 Vdc power.
2.44" x 1.90" x 0.62".
CAT # BH-43A $4.20 each

**TWEEZER TEST LEADS**

A must for testing small, in-circuit components.
Shrouded banana plugs fit most test meters.
Tweezer marked with + and - symbols.
5.9" long tweezer probe.
Overall length of leads, 24".
CAT # TL-126 $6.95 each

**JUMPER WIRE SETS**

Pre-formed jumper wires
for use with solderless
breadboards. 14 color-coded
lengths. AWG 22 solid wire.
Unbreakable clear plastic storage case.
140 PIECE ASSORTMENT
10 of each size
CAT # JW-140 $3.75 each
350 PIECE ASSORTMENT
25 of each size
CAT # JW-350 $12.95 each

**TEST CABLES & CLIPS**

ECONOMY TEST LEADS
Red and black lead set with
banana plug on one end & pin
probe on other end. 3 ft. long.
CAT# TL-100 $2.80 per set
10 for $2.55 per set

**TEST LEADS WITH PIN PLUGS**

Set of red and black test
leads with pin plugs.
22" long cables.
CAT# TL-112 $1.85 set

**TEST LEAD: BNC TO ALLIGATOR CLIPS**

7" Mueller test cable. BNC male plug to red
and black alligator clips.
CAT# TL-105 $6.95 each

**MINI-HOOK JUMPERS & PROBES**

Mini-hooks are great for connection to parts
in high-density areas. They give a firm, insulated connection

**SET OF TWO 1 1/2" MINI HOOK JUMPERS**

Two 18" long mini-hook patch cords. One black, one red, with 1.5" long mini-hooks on each end.
CAT# MTC-2 $4.00 each

**2" MINI-HOOK JUMPERS**

Five 18" long mini-hook patch cords. Black, red, white, green and yellow.
CAT# MTC-5 set of 5 for $7.95
MINI-GRABBER TEST CLIPS, BLACK/RED
1.65” mini-clips. Mini-hooks provide a firm, insulated connection to small terminals and wires in high-density areas.
CAT# MTC-7 $1.80 per pair

CLIP JUMPERS
MINI JUMPERS
10 TEST LEADS
1” CLIPS
2 each of 5 colors.
CAT# MTL-10 $3.50 per set

REGULAR JUMPERS
5 TEST LEADS
2” CLIPS
CAT# HDTL-5 $3.15 each

TEST LEADS WITH SPRING-TYPE TEST CLIPS
10 jumpers, 5 colors, 32” long. 1.75” clips with stronger jaws.
CAT# HDTL-10 $5.40 each

ALLIGATOR CLIPS
2” ALLIGATOR CLIP
Solid, spring-action clip with screw. 5mm cable access hole can connect to banana plug test lead.
CAT# ALG-M 5 for $1.00
100 for 17¢ each • 1000 for 15¢ each

INSULATED ALLIGATOR CLIPS
Small, medium and large alligator clips with rubber boot. Sold in pairs, one red and one black.
1.07” alligator clips CAT# ALG-10
65¢ per pair • 100 for 50¢ per pair
1.4” alligator clips CAT# ALG-15
75¢ per pair • 100 for 60¢ per pair
1.75” alligator clips CAT# ALG-20
85¢ per pair • 100 for 70¢ per pair

INSULATION-PIERCING TEST CLIPS
JS Popper, Inc. #JP-8681. Famous “Bed-of-Nails” test clip designed for use with smaller gauge wires. Angled nose. 2.6” long. Includes rubber boots. These are new clips, removed from unused test leads. Includes two clips with one red and one black boot.
CAT# ALG-34 $6.50 pair

STEREO AMPLIFIER MODULES
Based on the PAM8610 chip, this little board just needs speakers, power and a signal source to provide lots of crisp, clear stereo sound. Operates on 7-15Vdc. The audio source (ie. Cellphone, MP3 player) provides the volume control. Clearly marked solder spots for easy assembly. 25 x 30mm pc board.
CAT# AMP-8610 Reduced Price $7.95 each

3W STEREO AMPLIFIER W/ POT
High-quality 3W stereo amplifier based on the PAM8403 chip. Small footprint is ideal for portable application. Low current drain. Operates on 2.5-5Vdc. Easy to connect, clearly marked solder or header connections.
CAT# AMP-8403 Reduced Price $4.00 • $2.50 each

VOICE RECORD / PLAY MODULE W/ SPEAKER
Based on the ISD1820 chip, this multiple-message record/playback device offers true single-chip voice recording, non-volatile storage, and playback capability for 8-20 seconds. Features on-board microphone as well as internal audio amplifier which can drive the included 8Ω 0.5W speaker directly. Supply voltage 3.3-5 Vdc.
CAT# ME-63S New Item $7.00 each
Above module without the speaker, CAT# ME-63 $6.00 each

STANTON DJ PHONO CARTRIDGE
Specially designed for DJs but works great for casual listening. 0.6 mil conical bonded stylus tracks the center of the record groove for reliable performance and excellent fidelity. Standard 2-screw mount. Includes hardware.
CAT# CT-554 New Item $14.95 each

STANTON / AUDIO-TECHNICA HEADSHELL
Universal 1/2”-mount headshell for 4-pin turntable cartridges features die-cast aluminum construction and an integral finger lift. It is equipped with a rubber washer for a secure fit to your tone arm, and color-coded lead wires. For use with standard 2-screw magnetic cartridges. Fits all “S” shaped tone arms with standard H-4 Bayonet Mount.
CAT# HS-300 New Item $6.00 each

ORDER TOLL FREE 1-800-826-5432 81
TEST EQUIPMENT AND ACCESSORIES

3 1/2 DIGIT LCD MULTIMETER
Velleman# DVM890
An incredible array of features at a great price.
20A DC current, 1000 DC Volts.
20A AC current, 700 AC volts.
Resistance to 20 M. Capacitance from 2000pF to 20uF. Frequency measurement to 20kHz. Temperature measurement: -58º F to 1832º F with K-type thermocouple. Low battery indication, overload protection and auto power off function. Protective rubber shell, test leads and thermocouple included.
**CAT# DVM-890** $45.00 each

ECONOMY DIGITAL MULTIMETER
Economical and compact multimeter with a 3 1/2 digit LCD for measuring DC and AC voltages, DC currents, resistance, diodes and transistors (hFE). Features overload protection. Ranges: DC and AC voltage, 500 volts, DC current, 0.2 A (fused), 10 A (not fused), resistance to 2M. Ideal for hobbyists, for use in the field and workshops. Test leads, instruction book included. 3.70" x 1.81" x 1.03" h.
**CAT# DVM-810** $7.95 each

CAPACITANCE / INDUCTANCE / RESISTANCE METER
GME # LCR200.
Portable inductance, capacitance and resistance meter. Large four-digit LCD display. Auto zero adjustment. Over-range indicator.
**CAT# LCR-200** $58.00 each

LASER DIGITAL TACHOMETER
This non-contact tachometer detects light reflected off an object and reads out RPM value. Micro computer technology with laser beam gives accurate & fast, once per second, readings. Stores & recalls the last, maximum and minimum RPM readings. Readings remain in memory until the next measurement. 2.5 to 99,999 RPM range. Large 5-digit LCD display. CE certified. Operates on 4 AA cells, included. Storage case included.
**CAT# TCH-4** $47.75 each

LCD MULTIMETER W/ BACKLIGHT
Velleman# DVM850BL
For features, accuracy and ruggedness, this is a great, inexpensive multimeter.
DC current (10 A), DC and AC voltage (600 V), resistance (2 M ohm), diode, transistor tester, audible continuity and hold button. Protective rubber shell and test leads included.
**CAT# DVM-850BL** $17.95 each

DIGITAL MULTIMETER
Dawson# DDM423
**Specifications:**
- AC/DC Voltage: 600V
- AC/DC Current: 10A
- Resistance: 2MΩ · Data hold
- Temperature (K-type): -4ºF to 1832ºF (-20ºC to 1000ºC)
- Diode test · Continuity with buzzer
Includes: Test leads, 9V battery
**CAT# DDM-423** $31.99 each

DIGITAL MULTIMETER W/ LOGIC TEST
Dawson# DDM190D. Portable pen-type digital multimeter featuring 5V logic level test, DC/AC voltage and current measurement, auto/manual range, maximum and hold reading, auto power off, and LCD built-in for easy reading. Slim, lightweight design w/ retractable probe is mobile and ideal for both professionals and hobbyists.
**Measures:**
AC/DC Voltage, AC/DC Current, Resistance
**Specifications:**
- Auto and Manual Range.
- Max. Voltage: 600V DC or AC
- Display: 0.79 In. (20mm) LCD
- Maximum Number: 1999
- Negative polarity indicator
- Overload Indication: Display ‘OL’
- Sampling Time: Approx. 0.4 second/time
- Low Battery Indication
- Auto Power Off: 15 min.
- Power Supply: 1.5V x 2 AAA battery
- 8.2 x 1.5 x 1.14" (208 x 38 x 29mm)
**Includes:** Test Leads, Alligator Clip & cable, Two 1.5V AAA Battery, Case and User’s Manual
**CAT# DDM-190D** $38.99 each

SCOPE PROBE SET
60 mHZ Probe with BNC connector. Comes with ground lead, retractable hook tip, pin tip with IC lead cover and standard cover.
**CAT# PR-60** $19.50 each

CONTINUITY TESTER
GB Instruments™
GCT-304A. Probe lights when continuity exists. Flexible 34” cable with alligator clip. Requires 2 AA batteries (not included).
**CAT# CT-19** $2.95 each