**ULTRASONIC SENSORS**

**ULTRASONIC DISTANCE SENSOR**
The HC-SR04 is an affordable proximity/distance sensor that can be used for object avoidance in various applications from robotics to car parking. The module has integral ultrasonic transmitters, receiver and control circuit and is for use in conjunction with Arduino boards. 45 x 27 x 17mm.

**CAT# UST-4**  $4.50 each

**ULTRASONIC TRANSDUCER**
Matsushita #0D24K2.
0.95” diameter x 0.38” metal case.
0.65” long pc leads on 0.4” centers.
**CAT # XDR-24**  4 for $1.20

**32 KHZ ULTRASONIC TRANSDUCER**
Nippon Ceramics R32-16CN
0.64” diameter x 0.37” metal case.
0.70” long pc leads on 0.45” centers.
**CAT # UST-32**  4 for $1.40

**40 KHZ ULTRASONIC TRANSDUCER**
Nippon Ceramics AT40-12PK
0.50” diameter x 0.36” black plastic case.
0.30” long pc leads on 0.32” centers.
**CAT # UST-40P**  4 for $1.40

**TEMPERATURE SENSORS**

**TMP36 TEMPERATURE SENSOR, TO92**
Low voltage, precision centigrade temperature sensor. It provides a voltage output that is linearly proportional to the Celsius temperature. It also doesn't require any external calibration to provide typical accuracies of ±1°C at +25°C and ±2°C over the -40°C to +125°C temperature range.

**CAT # TMP-36**  $2.50  $2.00 each

**DIGITAL TEMPERATURE SENSOR**
DS18B20 1-Wire digital temperature sensor. Reports degrees C with 9 to 12-bit precision, -55°C to 125°C (+/-0.5°C). Each sensor has a unique 64-Bit Serial number etched into it - allows for a huge number of sensors to be used on one data bus. The corner stone of many data-logging and temperature control projects. TO-92 package.

**CAT# DS18B20**  $1.50 each

**TEMPERATURE / HUMIDITY SENSOR**

**CAT# SEN-4**  $3.50 each

**DIGITAL TEMPERATURE SENSOR MODULE**
Dallas DS18B20 temperature sensor chip mounted on a pc board with pins for plug-in use with Arduino and other platforms.

**CAT# TS-12**  Reduced Price  $2.75 each

**TEMPERATURE SENSOR**
National Semi # LM34DZ
Precision Fahrenheit sensor. Voltage is linearly proportional to the temperature. Operates on 5-30Vdc TO-92 package.

**CAT# LM34DZ**  $3.30 each

**THERMOSTATIC CONTROL MODULE**
Digital module can be programmed to turn equipment on or off at specific, pre-set temperatures. Also has hysteresis setting, delay setting, upper-limit setting and upper limit alarm setting. Displays temperature in Celsius on 3-digit LED display. On-board 20A relay. Waterproof temperature sensor. Three buttons for navigating temperature parameters and other functions. Operating voltage 12 Vdc. Overall dimensions 48mm x 40mm x 14mm.

**CAT # THM-4**  $6.00 each

**HALL EFFECT SENSORS**

**HALL EFFECT SENSOR BOARD**
44E938 and related components on a pc board designed for use with Arduino boards. 30 x 15mm overall dimensions. Operates on 5V.

**CAT# SE-54**  Reduced Price  $2.25 each

**HALL EFFECT SENSOR**
Allegro MicroSystems # UGN3503U
Ratio metric, linear hall-effect sensor in a miniature three-lead plastic SIP package. Flat Response to 23 kHz. 4.5V to 6V Operation.

**CAT# HES-2**  $1.50 each

**LINEAR MAGNETIC HALL SENSOR**
Simple analog hall sensor module used for proximity switching, positioning, speed detection, and current sensing applications. Signal output is low when magnetic field is present, signal output is high when magnetic field is absent. LED indicator. Potentiometer for adjustable sensitivity. Operating voltage 5Vdc. 44mm x 15mm x 13mm.

**CAT# SE-14**  $2.50 each
**NO HASSLE RETURN POLICY**

**CPU HEATSINKS**

- Aavid Thermalloy # 52901B02500G. Black anodized aluminum heat sink with mounting posts on 25mm centers.
- **Cat# HS-234** $1.00 each

**THERMAL COMPOUND**

- **1.5 GRAM SYRINGE**
  - For a wide range of applications including high-power CPUs, GPUs and high-performance heatsinks or water-cooling solutions.
  - **Cat# TG-215** $2.00 each

**1/2" BLACK RUBBER FEET, 4 PIECES**

- Shank presses or glues into 3/8" diameter hole.
- **Cat# RF-54** 4 for 50¢

**MINI-TONE TRANSDUCER**

- **Cat# PE-419** 2 for $1.00
  - 100 for 40¢ each

**TELESCOPING MAGNET**

- Facilitates retrieval of small metal parts.
- Adjustable. Extends to 23" overall length.
- **Cat# MAG-31** $2.50 each

**SMILE-FACE POST-IT-NOTES®**

- You can't get Post-it® sticky note pads at this price anywhere.
- These have a light-grey emoji-style smiley face in the center and some efax company info along one side, but they're just as useful as the ones you'd pay a lot more for. 3" x 4" pads of 50 sheets. Buy them individually or in packages of 40, or in cases of 240 pads.
- **Cat# PIN-40** 25¢ each
  - 40 for 19¢ each • 240 for 15¢ each

**TELESCOPING MAGNET**

- **14’ 6-CONDUCTOR CABLE**
  - Color-coded 22 AWG stranded leads.
  - Black 0.25" diameter PVC jacket.
  - 8" tipped pigtail leads on one end.
  - **Cat# HW-25** $2.50 each

**SMILE-FACE POST-IT-NOTES®**

- You can't get Post-it® sticky note pads at this price anywhere.
- These have a light-grey emoji-style smiley face in the center and some efax company info along one side, but they're just as useful as the ones you'd pay a lot more for. 3" x 4" pads of 50 sheets. Buy them individually or in packages of 40, or in cases of 240 pads.
- **Cat# PIN-40** 25¢ each
  - 40 for 19¢ each • 240 for 15¢ each

**3ML PLASTIC SYRINGE**

- Re-usable 3ml plastic syringe, with luer lock type tip.
- **Cat# SYR-31** 50¢ each

**NYLON SPRING CLAMPS**

- Hold down your work-in-progress with these rugged nylon spring clamp. Swivel jaws stay parallel on materials of varying thickness.
  - **3.75” long Cat# SCL-20** 2 for $1.00
  - **4.75” long Cat# SCL-40** $1.00 each
  - **6.50” long Cat# SCL-60** $1.50 each

**1/2" BLACK RUBBER FEET, 4 PIECES**

- Shank presses or glues into 3/8” diameter hole.
- **Cat# RF-54** 4 for 50¢
0.89” DIAMETER X 0.13”
Matsushita #WM-71A111M
1” wire leads.  CAT# PE-54
75¢ each • 100 for 50¢ each

0.86” DIA. X 0.1”
Plastic housing with a ring of self-adhesive neoprene padding on the front face. 1.25” long leads.
CAT# PE-49  50¢ each • 10 for 35¢ each

MINI TONE TRANSDUCERS
Used in paging, warning signals, metal detectors and alarm clocks.  Miniature magnetic transducers require external signal source to produce sound.
RDI # DMT-1206.  48 Ohm audio tone transducer. 0.47” dia. x 0.34” high.
PC pins on 0.25” centers.  CAT# PE-52  3 for 99¢
100 for $15.00 • 1000 for $125.00

DBX-01PN.
0.47” dia. x 0.36” high. 16Ω impedance.
Requires external signal to produce a tone.  PC pins on 0.25” spacers. 80 dB @ 10 cm. 2040 Hz. Operating voltage: 1.5V.
Current rating: 30 mA.
CAT# PE-61  3 for 99¢
100 for $15.00 • 1000 for 12.5¢ each

Intervox #BRT1209L-03.  16 Ohm.
12mm diameter x 8.5mm high.
3.6Vdc (1.5 – 5Vdc), 70mA max current.
90 db @ 10 cm. 2048Hz. Two 3.5” leads.
CAT# PE-58  3 for 99¢
100 for 25¢ each • 1000 for 20¢ each

AVX/Kyocera # PCRT21BGX
Black plastic front, vented metal back.  Solder loop terminals.
0.82” diameter x 0.15”
CAT # PE-38  3 for 99¢
100 for $15.00 • 1000 for $125.00

CRYSSTALS
HC49/U (HC18/U) case.
0.52” x 0.43” x 0.18”.  0.2” lead spacing.
3.579545 MHz  CAT# CRY-318
3.6864 MHz  CAT# CRY-3686
6.144 MHz  CAT# CRY-6144
12.9 MHz  CAT# CRY-129
14.7456 MHz  CAT# CRY-1474
16 MHz  CAT# CRY-16
20 MHz  CAT# CRY-20
24.576 MHz  CAT# CRY-245
40.320 MHz  CAT# CRY-4032
All of one value 5 for $1.00 • 100 for $15.00

50.000 MHz CRYSTAL OSCILLATOR
KDS# DOC-702A, KDS-3F
50.000 MHz.  0.8” x 0.5” x 0.21” h.
Four pc leads on 0.3” x 0.6” centers.
CAT# CRX-503  50¢ each

RUBBER BUMPERS / FEET
CLEAR BUMPERS / FEET
Self-adhesive polyurethane bumpers apply quickly and easily wherever protection is needed against scratches, slippage or noise.
0.8” diameter x 0.4” high clear feet
with 0.35” dia. recessed center.
Sold in sheets of 50 pcs.
CAT# RF-32
1 sheet (25 pcs) for $4.50 per sheet
12 sheets (288 pcs) for $3.80 per sheet

Solid cylindrical clear bumper, 0.4” dia. x 0.25” high. Sold in sheets of 50 pcs.
CAT# RF-33
1 sheet (50 pcs) $3.50 per sheet
10 sheets (500 pcs) $2.65 per sheet

1.46” DIA. RUBBER FEET
Hard rubber equipment foot. Countersunk, metal reinforced hole for #8 screw. Black.
1.46” diameter x 0.59” high
CAT# RF-615  4 for $1.80 • 100 for $30.00
1.46” diameter x 0.41” high
CAT# RF-605  4 for $1.70 • 100 for $28.00

NYLON SPACERS, NON-THREADED

HOOK & LOOP SPECIAL!
Hook and loop strips with strong adhesive backing. For indoor/outdoor use. Water resistant.
Includes both hook and loop.
3” x 1” -  Package of 10
CAT# HL-310
65¢ per pack
10 packs for 60¢ each
100 packs for 50¢ each
500 packs for 35¢ each
1000 packs for 25¢ each

4” x 1” - Package of 12
CAT# HL-412
85¢ per pack
10 packs for 75¢ each
100 packs for 65¢ each
500 packs for 45¢ each
1000 packs for 30¢ each

Self-adhesive polyurethane bumpers apply quickly and easily wherever protection is needed against scratches, slippage or noise.
0.8” diameter x 0.4” high clear feet
with 0.35” dia. recessed center.
Sold in sheets of 50 pcs.

Solid cylindrical clear bumper, 0.4” dia. x 0.25” high. Sold in sheets of 50 pcs.

Hard rubber equipment foot. Countersunk, metal reinforced hole for #8 screw. Black.

Hook and loop strips with strong adhesive backing. For indoor/outdoor use. Water resistant.
Includes both hook and loop.

Clearance