115 VAC 120 MM
4.69” square x 1.5”
Aluminum housing.
Thermoplastic impeller.
Terminals accept standard fan plug or can be soldered. UL, CSA.

54 CFM, SLEEVE BEARINGS
EZ Fan # FP-108-1-S3.
110/120 Vac. 0.11 Amps.
CAT# CF-120 $14.80 each

54 CFM, BALL BEARINGS
EZ Fan # FP-108-1-S3B.
110/120 Vac. 0.11 Amps.
CAT# CF-275 $18.95 each

120 CFM, SLEEVE BEARINGS
EZ Fan # FP-108-U S1
3000 RPM. 45 dbA.
CAT# CF-281 $15.00 each

120 CFM, BALL BEARINGS
EZ Fan # FP-108-U S1B or (SU-BBT)
3000 RPM. 45 dbA.
CAT# CF-282 $19.00 each

125VAC 172MM
Thermocool
# G17050HASB
2900 RPM, 198 CFM.
125Vac, 0.4A. Ball bearing fan.172mm dia. x 51mm. Terminals for standard fan plug or solder. CuULus, CE, TUV, RoHS.
CAT# CF-415 $21.95 each

RUBBER FAN MOUNT
Reduce cooling fan vibration and noise. These silicone mounts effectively decouple and absorb unwanted vibration. They press-fit into the mounting holes of most cooling fans. No case mods required.
CAT# RFM-1 4 for $1.00

CORDS WITH FAN PLUGS
2-conductor fan plug fits most AC cooling fans.

STRAIGHT PLUG W/ 3' CORD
CAT# CFC-14 $1.25 each • 10 for $1.00 each

45° PLUG W/ 6' CORD AND AC PLUG
CAT# CFC-15 $3.00 each

METAL FAN GUARDS
for square fans.

<table>
<thead>
<tr>
<th>Fan size</th>
<th>CAT#</th>
<th>each</th>
</tr>
</thead>
<tbody>
<tr>
<td>40mm</td>
<td>CFG-40</td>
<td>$1.00</td>
</tr>
<tr>
<td>60mm</td>
<td>CFG-60</td>
<td>$1.00</td>
</tr>
<tr>
<td>80mm</td>
<td>CFG-80</td>
<td>$1.25</td>
</tr>
<tr>
<td>120mm</td>
<td>CFG-120</td>
<td>$1.60</td>
</tr>
<tr>
<td>172mm</td>
<td>CFG-172</td>
<td>$1.60</td>
</tr>
</tbody>
</table>

PLASTIC FILTER KITS
Plastic guard, filter and retainer.
Foam filter can be removed and cleaned when necessary.

<table>
<thead>
<tr>
<th>Fan size</th>
<th>CAT#</th>
<th>each</th>
</tr>
</thead>
<tbody>
<tr>
<td>60mm</td>
<td>FF-60</td>
<td>$3.30</td>
</tr>
<tr>
<td>80mm</td>
<td>FF-80</td>
<td>$3.45</td>
</tr>
<tr>
<td>92mm</td>
<td>FF-92</td>
<td>$3.60</td>
</tr>
<tr>
<td>120mm</td>
<td>FF-120</td>
<td>$3.60</td>
</tr>
</tbody>
</table>

THERMOELECTRIC (PELTIER) DEVICE
A solid-state heat pump that transfers heat from one side of the device to the other depending on the direction of the current. When current is applied one side gets hot and the other gets cool. Commonly used to cool, heat or regulate temperature, it can also take advantage of a temperature differential to generate electricity. The hot side should be attached to a heatsink.

- 40 x 40 x 3.6mm
- Imax - 7A • Umax - 15.4V
- Qmax - 62.2W • Tmax - 69°C
- 1.7 Ohm resistance • 127 thermocouples
- Max Operating Temp: 180°C
- Min Operating Temp: -50°C

CAT# PJT-13 $4.95 ea. • 10 for $4.80 ea.

TEMPERATURE CONTROLLER
Thermoelectric temperature controller from Wavelength Electronics. Modified for a specific application. For info on the original design and the modifications, see our online spec sheet. 2.5” x 1.4” x 0.7”.
CAT# TRC-1500 $1.50 each

HEAT SINKS
TO-220 aluminum heatsink, 19 x 14 x 9mm.
CAT # HS-317 4 for $1.00
100 for 9¢ each

36 X 32 X 12MM 1.42" x 1.25" x 0.47" aluminum heatsink with 4 notched fins.
CAT # HS-423 $1.00 each

COPPER HEATSINK FOR TO-220
THM 6030. Vertical mount, tin coated copper heatsink for TO-220 device. 30 x 25.5 x 12mm.
CAT# HS-6030 $1.50 each
10 for $1.30 each

TO-220 CLIP-ON HEATSINK
Avid Thermalloy #7139D
Copper heat sink with integrated slide-on mounting clip. Tin plated. 19.81 x 13.21 x 13.08mm (0.780” x 0.520” x 0.515”).
CAT# HS-7139 3 for $1.00 • 100 for $25.00

VISIT OUR WEBSITE - WWW.ALELECTRONICS.COM 43
NO HASSLE RETURN POLICY

CLIP-ON HEATSINK reduced
For TO-220 / TO-202
CAT# HS-6047 for $1.00
5 for $1.00 • 100 for 18¢ each

42 X 25 X 38MM
Aavid Thermalloy
# 52901B02500G.
Black anodized aluminum heat sink with mounting posts on 25mm centers.
CAT# HS-234 $1.00 each

CPU HEATSINKS
Aluminum heatsink.
Square patch of thermal compound on bottom. Removable hold-down clip.

85 x 83 x 45MM
CAT# HS-580 $3.50 each

50 X 50 X 45MM
CAT# HS-585 $1.75 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# TO-215 $2.00 each

MX2 THERMAL COMPOUND
Arctic MX-2 is a metal-free & non-electrically conductive thermal compound. Its high thermal conductivity and low thermal resistance guarantees efficient thermal dissipation making it ideal for CPU & GPU cooling. It is also non-capacitive, non-curing, non-corrosive and non-bleeding.

4 Gram Syringe CAT# MX2-4 $5.25 each
8 Gram Syringe CAT# MX2-8 $7.50 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

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

8Ω 15 WATT SPEAKER IN ENCLOSURE
3.5” speaker in break-resistant wall-mount enclosure. Durable poly cone for indoor and sheltered outdoor use. White enclosure, 4.25” square x 2.20” deep. 10” color-coded pigtail leads. New, individually boxed with mounting screws.
CAT# SK-350 $4.50 each

PAGING HORN
Universal# SP-20B. Horn-type communication speaker.
20 Watt 8 Ohms. 5.25” dia. x 6” long. 3-hole adjustable mounting bracket. 12” leads.
CAT# PHS-20 $4.95 each
24 for $4.25 each

TELESCOPING MAGNET
Facilitates retrieval of small metal parts. Adjustable. Extends to 23” overall length.
CAT# MAG-31 $2.50 each

1/2” BLACK RUBBER FEET, 4 PIECES
Shank presses or glues into 3/8” diameter hole.
CAT# RF-54 4 for 50¢

VIBRATION SHOCK MODULE
Vibration and shock detecting module sends out a low level signal when a force is detected. Sensitivity can be modified by moving switch closer or farther away from area of interest. Operates on 5V. 28mm x 15mm.
CAT# SE-53 $1.50 each

MINI-TONE TRANSDUCER
MG Electronics# SBT-1612.
6-18 Vdc mini-tone transducer.
Max current 40mA @ 12Vdc. 85db/10cm, 2048Hz. 115Ω ± 12Ω coil resistance.
200Ω coil impedance. 16mm diameter x 14mm. 7.5mm high PC pins with 6mm spacing.
CAT# PE-419 2 for $1.00
100 for 40¢ 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