

## Newest Products

Increase Sales by using the most innovative technology.

### Thermoelectric Coolers



#### Product Description

These compact, low-profile coolers using the Peltier effect allow you to cool small indoor and outdoor enclosures. No condensers, compressors or filters are required making it a reliable solution for demanding low-maintenance environments.

#### Product Features

- Technical Data: TE09 60W 204 BTU/Hr. (24 V)
- Technical Data: TE12 100W 341 BTU/Hr. (24/48 V)
- Technical Data: TE16 200W 682 BTU/Hr. (24/48 V)

[Learn More](#)

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## SPECTRACOOL™ Indoor & Outdoor Air Conditioners



### Product Description

Designed to deliver vital cooling to sensitive electronics within enclosures, SPECTRACOOL Narrow Air conditioners fit on shallow depth enclosures with a footprint only 11.5-in. wide and able to fit on 300-mm cabinet or 12-in. cabinet. These new products feature a dust-resistant coil, supporting filterless operation in most environments.

Models provide 4,000, 6,000, 8,000 and 11,000 BTUs/hr. of cooling and operate on 115, 230 or 400/460V 3-phase AC power input.

[Learn More](#)

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## Compact Single- and Dual-Digital Encoders | BI



Providing design engineers with compact means of converting rotary motion to a series of digital pulses, TT electronics BI Technologies has developed a line of single- and dual-digital rotary encoders.



## Product Features:

- 20 detents per revolution.
- Rotational torque of detent: rated at a maximum of 1.0oz-in.
- Operating life: 50,000 cycles.
- Optional SPST momentary switch life: rated at 15,000 actuations.
- Maximum Operating Speed: 30RPMs at 10 pulses per revolution.
- SPST switch maximum operating force: 850 gf (and travels up to 0.5mm).
- Closed Circuit Resistance: Rated at a maximum of 3.0 Ohms (1.0mA/5Vdc contact rating).

[Learn More](#)

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## High Quality Connectors | AB Connectors Ltd.



AB Connectors Ltd, part of the TT electronics Connectors Business Unit has developed into one of the most important and innovative Interconnect companies, providing global support to some of the leading OEM's across three distinctive [market sectors](#): Aerospace & Defence, Traction and Industrial. AB Connectors is based in Abercynon, just north of Cardiff and has a vertically integrated factory. From machine parts through its own state of the art plating facility to the finished assembly, all taking place under one roof.



AB Connectors' sister company in the USA, AB Interconnect Inc, based in Smithfield N.C., allows business to be carried out for the USA DoD and the major defence manufacturers through an ITAR compliant facility which has TAA's in place with the UK factory. Combining the USA (Smithfield N.C.) and Chinese (Suzhou, China) factories. AB Connectors can support both the global traction industry and various sectors of the ever expanding industrial market.

## **Aerospace**

With the newly released D38999 range of connectors, which is the connector of choice within the Aerospace market (both Military and Commercial) and having the AS9100 and Mil 790 approvals at several of our sites, we are in an ideal position to provide a global support service.

## **Defence**

AB Connectors has been a global supplier of connectors, harnesses and systems to aerospace, military & naval markets for over 70 years. Our sites in the UK & USA are fully compliant with the ITAR regulations.



## **Traction**

AB Connectors was the first circular connector company to achieve the international IRIS accreditation and the first UK Company to attain this approval. The AB product portfolio includes products approved by all the prime countries, transit operators and OEM's around the world. We recently re-validated our ABCIRP range with SNCF and are one of a very few connector manufacturers to achieve this.

## **Industrial**

In the vast industrial market, we focus on supplying connector products and services within the machine tool, mining, HGV, power generation, alternative energy and medical industries.

[Learn More](#)

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## Corcom HZ Power Line Filters



Current ratings for the new Corcom HZ power line filters series range from 3A-30A with low leakage current to comply with medical industry standards. The low leakage characteristic of the Corcom HZ Series filters reduces the risk of accidental electric shock in the case of ground circuit faults in the medical device.

The Corcom HZ Series offers solid attenuation from 10kHz to 30MHz. The product's performance related to its small footprint (40% smaller than similar power line filters) is unique in the market.



### Product Features:

- Maximum leakage current each Line to Ground
  - 2 $\mu$ A @ 120 VAC 60Hz
  - 5 $\mu$ A @ 250 VAC 50Hz
- Hipot rating (one minute)
  - Line to Ground: 2250 VDC
  - Line to Line: 1450 VDC
- Rated Voltage (max)
  - 250 VAC
- Operating Frequency
  - 50/60Hz
- Rated Current
  - 3A, 4A, 6A, 10A, 15A, 20A, 30A
- Operating Ambient Temperature Range (at rated current  $I_r$ )
  - -10°C to +40°C

- In an ambient temperature ( $T_a$ ) higher than  $+40^{\circ}\text{C}$  the maximum operating current ( $I_o$ ) is calculated as follows:  $I_o = I_r \sqrt{(85 - T_a)/45}$

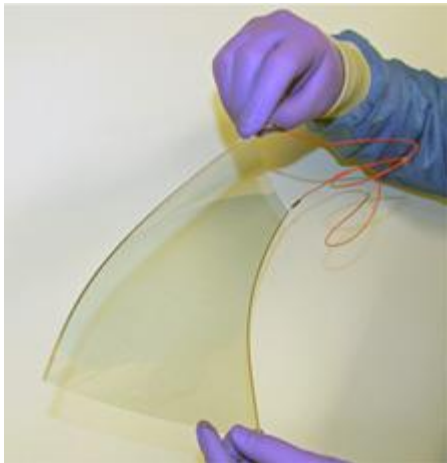
[Learn More](#)

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## Therma-Klear-TFT™ Series Flexible Transparent Heaters



Dontech, Inc. announces the NEW Therma-Klear-Flex Series of Thin Flexible Transparent Heaters for electronic displays, touch screens and custom applications. Therma-Klear-Flex™ Heaters can extend the lower thermal range of LCD's, resistive touchscreens, optical sensors and camera windows used in outdoor, military or avionic applications. Additionally, they are used for anti-fog and anti-icing applications.



### Product Features:

- Visually transparent conductive coatings
  - Applied to flexible optical grade polyester
- Single or multiple-layer
- Sputtered thin film coatings with a resistance from 5 to 200 ohms/sq
- Heaters are as thin as 0.007"
- Dielectric enhancements
- Light transmission able to exceed 90%

[Learn More](#)

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## 3 New High Current Spring Pins



Mill-Max is pleased to announce the addition of three new large scale, high current spring pins to our expanding family of ruggedized spring-loaded products. In contrast to our miniature spring pins, which are typically used on .100" (2.54 mm) centers, these new offerings are for applications where greater spacing is required due to electrical and mechanical specifications.



### Product Features:

- Gold-plated, stainless steel spring (Rated for 1,000,000 cycles)
- Highest interconnect reliability
- Corrosion protection
- Wear resistance
- .045" (1.143 mm) working travel
- Thick wall construction
- Solid plungers for increased durability

[Learn More](#)

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## NX-L series IGBT modules



The 6th generation IGBT technology is being introduced in the new NX-L series IGBT modules; 1200V, 450A, 600A & 1000A.

**Versions** – duals, 6 in 1, 7 in 1, CIB also being introduced.



## Product Features:

- Improved  $V_{ce(sat)}$  and switching losses, temperature performance and EMI
- Motor Control
  - AC motor control
  - Motion/servo control
- UPS
  - 3 phase
  - 1 phase
- Power supply
  - Welding, medical (laser, x-ray)
- Lower overall Power Loss
- Lower EMI
- Lower gate capacitance
- Improved performance with same short circuit capability
- Same NX package can be used in many more applications
- Lower  $T_j$ ,  $T_c$ , -> reduced cooling requirements, higher power density designs
- Less circuit issues - Easier to design in from a system standpoint
- High Power Density – eliminates the need to parallel competing devices

[Learn More](#)

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## Zero Cases



ZERO Manufacturing is a world-class manufacturer of quality, deep-drawn and fabricated aluminum and molded plastic cases, enclosures and assemblies for the defense, aerospace, industrial, medical, electronics and telecommunications markets. ZERO's real product is

protection—ensuring the safe transport and viability of valuable equipment and electronics, without compromise.

ZERO can meet your needs with one of our standard products, or through a specialized custom design, we have the engineering and manufacturing expertise to see the job through to success. From our 19" rackmount cases and deep drawn aluminum enclosures, to our water-tight ruggedized plastic cases and strong, yet lightweight aluminum carrying cases, we specialize in meeting and exceeding the complex needs of the most demanding industries. For Unparalleled Protection, choose ZERO.

[Learn More](#)

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## New SMT, Radial, Snap-ins & Screw-terminals



### Products' Features



- PXF, P XK, PSF, PSK – offering the lowest ESR, and smaller size
- MZF, MLF – long life, higher ripple, lower ESR
- LZA – radial, lower ESR, higher ripple (6.3V – 35V)
- KZR – higher ripple (10V – 35V)
- KYA – higher capacitance (15,000uF)
- GPA – high ripple (25V – 80V, 125C)
- KXJ – high voltage (< 450V), 12,000 hrs.
- KMR/KMS/LXS – up to 5K hrs,  $\leq 500V$ ,  $\leq 5,000$  hrs.
- KMVRWV – for motor drives, survives 50 million cycles

[Learn More](#)

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## United Chemi-Con Japan Quake/Tsunami Recovery



United Chemi-Con sincerely appreciates the concern shown in the wake of the 3/11/11 natural disaster in Northern Japan. We are pleased to announce that full production resumed at all production facilities in mid May. Additional investment has been made to expand production capabilities and we are ready to support all customers with reduced lead times on our entire capacitor catalog. Please contact a Halbar representative for all of your capacitor needs.

[Learn More](#)

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## Electric Vehicle Quick Charger Connector



JAE has now developed and started mass-production of the "KW1 Series", a cable connector for use with the quick chargers. The "KW1 Series" is JEVS G 105 (1993) standard compliant and is compatible with the Japan-originated CHAdeMO (Note 2), which is now promoted as a global standard for quick charging. In the design we focused on safety and easy intuitive operability that requires no complex handling, such as lever manipulation, since everyday people will operate these products.

In the pursuit of weight reduction, the "KW1 Series" achieves the industry's lightest-in-class weight, and together with a flexible cable this improves its operability for charging. In consideration of future overseas expansion of CHAdeMO Protocol chargers, we plan to obtain UL and CE certification.

### **Product Features**



- **Intuitive and easy operability.**

No need for complex lever manipulation like the other existing chargers, and achieves one-hand operation. Connection to the EV is made by pushing connector into the EV inlet, and is removed by pushing the release button and then pulling the connector, allowing easy operation just like a normal speed charger.

- **Lightest-class-weight in the industry**

and excellent operability for easy usage by all types of people, including those of advanced age. By careful material selection, the weight of the individual connector achieves industry's lightest-in-class 1kg. In addition, use of a light and flexible cable makes handling the charger even easier.

[Learn More](#)

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## New Advanced Sensors



In addition to its current product line-up of bi-metal thermal switches, thermal fuses (TCO), thermistor probes, Thermodisc has introduced several new advanced sensors.

### Product Features

[25VS](#) Advanced Sensors Chemi-resistive Flammable Vapor Sensor

<a href="#">RHS</a>	Advanced Sensors	Packaged Humidity Sensors (RH&T)
<a href="#">WFS</a>	Advanced Sensors	Water Flow Rate Sensors

[Learn More](#)

## Power Magnetics - High current, High frequency, Low loss



### Product Features

- High Frequency, High Current Miniature Power Inductors
- Halogen free, RoHS compliant
- 125°C maximum total temperature operation
- 4.7x4.31x1.2, 1.5, 1.85mm maximum surface mount package
- Magnetically shielded
- Handles high transient inrush current spikes
- Rugged construction
- Inductance range from 0.09 $\mu$ H to 22 $\mu$ H
- Current range from 1.0A to 32.0A
- Halogen Free
- 125°C maximum total temperature operation
- 7.4 x 7.0 x 3.0mm maximum surface mount package
- Powder iron core material
- Magnetically shielded, low EMI
- High current carrying capacity, Low core losses
- Inductance range from 0.15 $\mu$ H to 10.0 $\mu$ H
- Current range from 3.2 to 52 Amps
- Frequency range up to 5MHz

[Learn More](#)