

Summer 2011 Edition



COOPER Bussmann - PTC Devices

Cooper Bussmann Introduces New Family of PolyTron PTC Devices New PTC devices are ideal for applications subject to frequent overcurrent conditions.

The new Cooper Bussmann® family of PolyTron™ polymer positive temperature coefficient resettable overcurrent protective PTC devices provide low resistance, fast trip times and reliable protection. Cooper Bussmann, a division of Cooper Industries plc (NYSE: CBE), today announced these environmentally friendly devices are ideal for protecting applications that are sensitive to high ambient operating temperatures or subject to frequent overcurrent conditions, such as consumer electronics, I/O ports, medical equipment and process-control applications. The PolyTron family of PTC devices significantly expands the Cooper Bussmann portfolio of overcurrent protection products to provide solutions to a greater variety of customers with wide-ranging needs throughout the world.

Available in popular SMD and radial leaded packages, the PolyTron family can meet many application requirements. SMD devices are rated 6 to 60Vdc with the 1206 package covering 0.05 to 2.0 amps, and the 1812 size covering 0.1 to 3.0 amps. Three radial leaded devices are rated for 16Vdc in ratings from 0.75 to 15 amps, 30Vdc in ratings from 0.9 to 9.0 amps, and 60Vdc in ratings from 0.1 to 3.75 amps.



PolyTouch - the newest innovation in capacitive touch technologies.

EDT's PolyTouch™, capacitive touch solution, an alternative to touch sensory design that is both easy to implement and highly reliable. EDT manufactures both single (button) touch and multi (gesture, zoom) touch, projective capacitive touch panels at our factory in Kaohsiung, Taiwan EDT works with IC vendors like Cypress, Atmel, Focal Tech, Mosart, Illitek, EETI, Himax, Sitronix, etc. EDT also has our own internal support for software and firmware. We also promote the full integration with our TFT or STN display to the CTP including Cover lens and decoration/customers logos! We can control everything on for them.

Key Features

- Excellent Visual Quality - Exceeds optical performance of traditional resistive touch panel. Allows enhanced visual experience for display interaction
 - Intuitive Interface - Allows direct user commands through the use of simple hand gesture for finger motion. Excellent responsiveness with either direct contact or glove accessories
 - Function - Supports both single and multi-touch applications. Example function includes, but not limited to: tap, slide, zoom in, zoom out, etc.
 - Variety - Both standard and customization types are available. Standard includes Touch on Glass (TOG), Integral and Traditional stand alone type
 - Design Friendly - Complete solution package for easy product design and integration, including driver, touch sensors and etc.
 - Flexible Design - Glass to glass design, cover lens lamination, and cover lens in cell
 - Adaptability - Suitable for many applications and designs where user interface is needed
 - Superior Quality - Excellent durability (up to 7H sturdiness), quick response time, sensitivity and long product life.
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Tyco Connectivity Corcom has new power inlet filter

Tyco Electronics has expanded the Corcom product line with a new power inlet filter. Available in four levels of filtering and an unfiltered version, these inlets are designed to accept up to 60 amps of current at 150 volts DC (UL/CSA) and 120 volts DC (TUV) in the filtered versions and 300 volts AC or DC in the unfiltered version. Filtered versions include the basic clean-up DBJ style through the higher performing DB style and DBX style which provides up to 68dB insertion loss within the 150kHz to 30Mhz frequency range. The DBF style uses feedthrough capacitors for improved high-frequency performance. Power input terminals are Tyco Electronics' #4 AWG Elcon "drawer style" contacts. The filters' load sides come prewired with #6 AWG hi-flex stranded wire. The unfiltered plugs and receptacles are available with pre-terminated, hi-flex wire of various lengths.



TRANSIT AND STORAGE CONTAINERS

BY ZERO MANUFACTURING

Extensive knowledge and experience in engineering transit and storage technology makes ZERO the indisputable leader in rugged plastic and metal cases. The Transitainer™ line represents the ultimate in total packaging capability at a very affordable price while our Modular Containers are the ultimate in durable, reusable shipping and storage solutions.

Transitainers: Available in over 60 standard sizes and with a variety of options to meet all of your requirements, made of high-strength, rotationally-molded polyethylene. ZERO rotomolded Transitainer cases include outstanding performance and protection.

Key Features & Benefits:

- Uniform wall thickness for durability
- Interlocking ribs, top and bottom, allow for stacking
- Rotomolded cases resist most chemicals and solvents
- Integrally molded tongue-and-groove closure
- Recessed hardware for added protection
- Meets applicable portions of MIL-T-28800, MIL-STD-4150 and MIL-STD-

810

Ask about ZERO's Transitainer Quick-Ship Program for delivery in days!

www.zerocases.com/transitainer



Reintroduces Two Original Cherry Keyboards

Back by popular demand, CHERRY has reintroduced two Original CHERRY keyboards featuring our world famous MX keyswitches. These keyboards feature the technology, functionality and durability CHERRY keyboards are known for. Whether you're a touch typist, gamer, or just want the absolute best keyboards available, these are the keyboards for you! The G80-1865LXNEU-2 features 104 keys in a compact, 16" layout, with two USB downstream ports and MX Brown (tactile "bump" with no audible click) keyswitches. The G80-3000LSCEU-2 is a full-sized 18.5" keyboard with 104 keys,

USB interface with PS/2 adapter and MX Blue (tactile “bump” with audible click) keyswitches. These are the keyboards our fans at sites like www.geekhack.org have been demanding. Well, ask and ye shall receive. The G80-1865 is already in stock at our El Paso warehouse, and the G80-3000 is due to arrive by April 26th. Both keyboards come with a 2-year warranty and keyswitch life expectancy in excess of 50 million actuations. Unlike low cost keyboards with rubber dome technology, these keyboards also promote sustainability, as they can be repaired in the unlikely instance there is an issue.



Cinch Omega Plug and Receptacle Connectors

Full performance in extreme environments and a Wide variety of configurations

The C48 (Omega) Series is a family of connectors qualified to MIL-C-26500. While maintaining the MIL-C-26500 mating interface, this product has also been expanded to include qualifications to numerous Boeing specifications to satisfy general purpose requirements and unique product challenges for shielding, environmental sealing, fluid resistance, and vibration.

The expanded cinch C48 product family offers numerous product options qualified to Boeing high performance requirements and product solutions developed for alternate termination styles/low-profile packaging.



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News Release

DONTECH INTRODUCES Therma Klear Flex™ FLEXIBLE TRANSPARENT HEATERS FOR TEMPERATURE CONTROL OF OPTICAL, LENS AND DISPLAY ASSEMBLIES

Dontech has introduced the Therma Klear Flex™ series of Thin Flexible Transparent Heaters for use in outdoor, military or avionic applications. Therma Klear Flex™ transparent heaters provide the warmth necessary to extend the operating temperature of liquid crystal displays (LCDs) in cold environments (e.g., from 0° to below -40°C) and for the anti-fog, anti-icing, and de-icing of optics and optical camera, sensor and display assemblies. Applications include avionics displays, vehicle displays, mobile computers, kiosks, and handheld devices. Custom shapes are available in sizes up to 24 inches in diameter.



Pentair Technical Products McLean brand SPECTRACOOOL

Air Conditioners deliver vital enclosure cooling for indoor and outdoor applications. Featuring a new, filterless design, these air conditioners reduce clogging, which can lead to a very costly and time-consuming system failure. Also providing labor and money savings typically required for filter replacements, SPECTRACOOOL Air Conditioners are superior, energy-efficient solutions for cooling critical electronics and keeping your business running.

- Energy-efficient rotary compressor delivers up to 23% greater energy efficiency
 - R134a earth-friendly refrigerant and RoHS compliant
 - Produces 68 dB for quieter operation than other traditional air conditioners
 - 4,000, 6000, 8,000, 12,000 & 20,000 BTUs/Hr (1,172, 1,758, 2300, 3500 & 5900 Watts) of cooling
 - Models for 115, 230 and 400/460 3-phase AC volt power input
 - UL Type 12/3R/4 rated and Telcordia GR-487 capable, providing reliable operation
 - Lightweight design and built-in hooks on the back of units facilitate easy installation
 - Corrosion-resistant components withstand demanding environments; all models undergo tests specifically engineered for dust and corrosion resistance
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Mill-Max Offers Rugged, Higher Current Spring Pins

Mill-Max now offers a series of rugged spring pins capable of carrying 9 amps continuous current at a low 10° C temperature rise. The Mill-Max 0850, 0851, 0852 and 0853 spring pins are the perfect solution for rugged applications and for use in circuits operating at currents above signal level. The 085X series is characterized by a greater mass and surface area which provides a lower resistance electrical path than miniature spring pins. Because they are designed and built with the same precision of our miniature spring pins they exhibit excellent signal integrity in shock and vibration environments.

These large scale spring pins feature a gold plated stainless steel spring, .050" diameter solid plunger and thick wall construction to withstand the rigors of demanding applications. Designed for through hole mounting, each pin has a large diameter post and flange providing for a perpendicular and secure P.C.B. attachment. The 085X series provides a generous .045" mid-stroke and .090" maximum stroke allowing for use in applications where stack up tolerances are great. Applications include board stacking, docking stations, cable assemblies, quick connects and anywhere there is a blind mate situation.

Rated at 1,000,000 cycles minimum, the Mill-Max 085X series spring pins are the best choice for higher-current, high reliability spring pin requirements. For more information, please visit: www.mill-max.com/PR617



United Chemi Con Introduces: Electro-Mechanical Products!

- CMOS Camera Module for Security and Electronic Data Recording
- Stepping Motors (4 and 6 mm size)
- Custom Made Battery Chargers

See <http://www.chemi-con.co.jp/e/catalog/meca.html> for more information.



NEW - MM60 Series **Display Mini Card (DMC) Connector**

MM60-76B2-G1 DMC connector is the latest member to JAE PCI Express Mini Card MM60 family. It is developed by following the guidelines from PCI-SIG to support the growing demand of Wireless HD video signal transmission applications.



New MIP4040 **High Frequency, High Current Miniature Power Inductors**

Stable, High Power Density up to 10MHz at Elevated Temperatures Now Packed into a **Miniature SMT Power Inductor** Realize new design possibilities in a rugged package while reducing board real estate.

The Cooper Bussmann Coiltronics MPI4040 Series of high frequency, high current miniature power inductors allows for the further miniaturization of handheld/mobile electronic devices as well as moving design ideas beyond current applications by combining high power density, effective EMI shielding and rugged construction into one low-profile 4 x 4.4 x 1.2 and 1.5mm SMT package.

Utilizing a unique, break-through inductor technology, the MPI Series is able to absorb high transient inrush current spikes as well as function as an optimum filter inductor at frequencies from 20kHz up to 10MHz, delivering superior performance per size over ferrite and pressed powder iron solutions. Even with an overall smaller weight to volume ratio, MPI4040 Series inductors displayed lower core loss than the leading pressed powder iron solutions in the market when tested at 500kHz and 500 gauss in elevated operating temperature

conditions. These lead-free, RoHS compliant, halogen-free inductors utilize an architecture that produces a stable, soft roll off performance over its operating temperature range of 25°C to 125°C ambient plus temperature rise. The rugged material and construction also provide excellent EMI shielding performance while reducing audible noise and helps mobile devices pass drop tests the first time.



Cooper Bussmann® PowerStor®

New Supercapacitor Families from Cooper Bussmann Offer Extended Temperature Performance and Increased Energy Density

The new PowerStor® HB & HV Series supercapacitors offer very high energy density and low Equivalent Series Resistance (ESR) for compact energy storage solutions. In addition to improved performance, these new supercapacitors are offered in the widest range of capacitance values from 1.0F to 110F.

The HB Series is available in sizes from 8mm diameter by 20mm to 18mm diameter by 60mm length, with capacitance values from 3F to 110F, and with ESR in the range 0.02 to 0.16 Ohms, maximum. The environmentally friendly HB Series provides a high integrity design with low leakage current and an operating life of over 10 years. The HB Series' voltage rating of 2.5V is for operating temperatures in the range of -25°C to +70°C, or with linear voltage derating to 2.1V, the range is extended to -25°C to +85°C.

The HV Series is available in sizes from 8mm diameter by 13mm to 18mm diameter by 60mm length, with capacitance values from 1F to 100F, and with ESR in the range 0.012 to 0.2 Ohms, maximum. The HV Series provides the highest possible performance with a voltage rating of 2.7V for operating temperatures in the range of -40°C to +65°C, or with linear voltage derating to 2.1V, the range is extended to -40°C to +85°C.
