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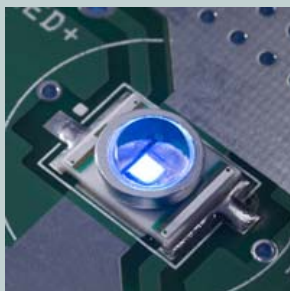


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Cree's New Blue XLamp XR-E LEDs are 70-percent Brighter



Cree, Inc. a market leader in LED solid-state lighting components, announced commercial release of blue XLamp® XR-E LEDs that are 70-percent brighter than the company's previous blue power LEDs. The new blue XR-E produces maximum luminous flux of 42 lumens at 350 mA.

"The release of our award-winning XR-E LED in blue is the next step in our mission to be the first LED supplier to offer a full color range of lighting-class LEDs," stated Norbert Hiller, Cree vice president and general manager for lighting LEDs. "The new blue XR-E LEDs offer lighting designers increased flexibility for their designs. They can now choose to use fewer LEDs to lower the overall design cost, or use the same number of LEDs to achieve greater light output." www.cree.com

Ultra-stable performance from thin film chip resistor series



The **NTR** series of high precision thin film construction chip resistors are now available from NIC Components Corp. Featuring ultra-stable (10PPM ~ 50PPM) resistance value change (TCR) over wide temperature and low noise figure. These high precision, lead-free devices have a resistance value tolerance range of just 0.1% to 0.5%, and a operating temperature range of -55°C to +125°C.

The **NTR** series is available in case sizes from 0402 to 2512. Resistance values range from 1ohm to 1Mohm, and working voltages from 25V to 150V. Parts are supplied on a 8mm carrier tape for automatic pick and place assembly. Pricing from \$0.01 ~ 0.28 each in production volumes. Delivery from stock to 8 weeks. www.niccomp.com

JARO's "DUAL TURBO®" SERIES IS SUPER



COOL

In addition to a remarkable, high-flowing level of 27 CFM, Jaro Thermal's new Turbo® series of "back to back" (40x48) fans produces an impressive static pressure of 1.4" in H₂O. Thanks to a fixed-blade design and slick air-gliding frame, the Turbo® maximizes static pressure as it simultaneously opti-

mizes air flow.

This fan is perfect for power supply applications where high airflow is required. To exceed today's toughest environmental requirements, available options include an extended temperature rating of -30°C to +90°C (standard -10°C to +70°C), IP-55 water protection, on-board PWM control, alarm output, tachometer output, thermistor controls and more. www.jarothermal.com

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SPRINGCON is your Solution



SPRINGCON brings field wire termination into the 21st century. Just insert the conductor into the wire entry and snap the finger friendly lever down for a lightning quick gas tight connection. From the audio industry to the automation and control systems, HVAC and more, the SPRINGCON line of terminal blocks from RIA CONNECT, Inc. represent the latest in tool-less wire to board termination.

- Wire ready
- Tool-less operation—just insert and snap
- Gas tight connection
- Mates with industry standard PC headers



www.riacconnect.com

DC/DC Converter With Output Power To 300 Watts Packaged in an Industry Standard Full Brick

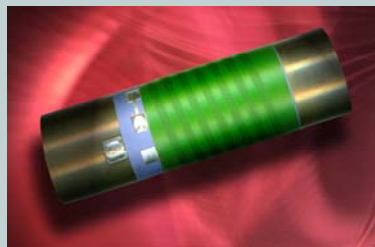


Wall Industries, Inc. broadens its product offering the "FA" 300-watt series of board mount or chassis mount DC/DC converters. All models are suited for telecommunications, industrial, mobile telecom and test equipment applications. These converters offer an ultra wide input range of 10-36VDC input. The series has single outputs of 5, 12, 15, 20, 24, 26, and 28. The

48Voutput model will soon to be added to the output selection.

www.wallindustries.com

Riedon: Thick Film and Foil Heater



Advantages:

- Compact and Low profile design
- Custom Packages
- Even Heat Distribution
- High Watt Density (>175 watts/in²)

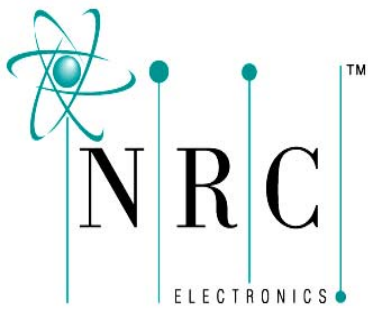


- High Operating Temperatures (>500°C)
- Ramp rates to 100°C/Sec
- Low Power Consumption



www.riedon.com

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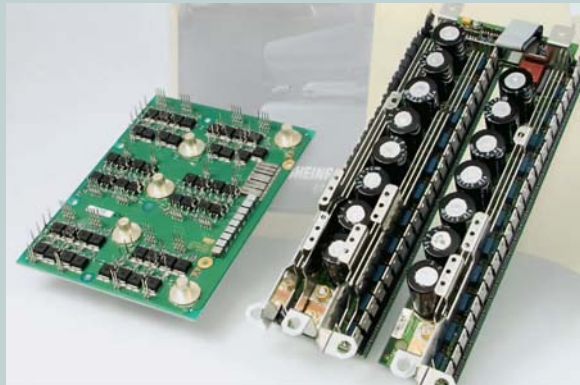
E-Switch: JS1300 New Navigation Switch with Multi-Functionality



This switch features multi-position, multi-switch functionality integrated into a single switch package.

- Contact rating: 12 VDC, 50 mA; SPST Normally Open
- Operating Life: 100,000 cycles
- RoHS Compliant
- Lead Time: 7 weeks
- 3000 Sample parts in stock and ship in 24 hours UPS Blue www.e-switch.com

Bergquist: Thermal Clad, All the Power into Half the Space



Thermal Clad insulated metal substrates (IMS) allows engineers to replace high profile thru-hole FETs, capacitors, and bus bars with fewer low profile, surface mount components. This sleek new design reduced package size by over 50%, all without sacrificing a single watt of power. Thermal Clad's unique dielectric coating dissipates heat more efficiently than FR-4 or other PCBs—ideal for high watt-

density applications.

Cooling with Thermal Clad IMS eliminates the need for heat sinks, clips, fans and other discreet components that increase package size and require costly manual assembly. Now, using surface mount technology, your able to automate much of the assembly process thus reducing cycle times and long-term manufacturing costs. www.bergquistcompany.com

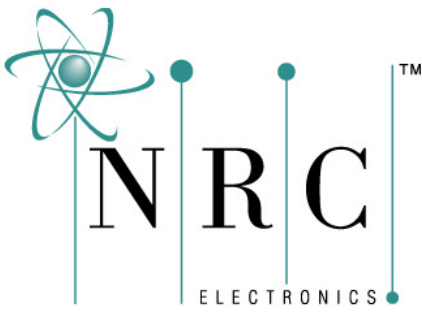
The Lumex Solution: KoolBrite™ SMTs



KoolBrite™ SMTs have been specifically engineered with exceptional thermal dissipating capabilities utilizing Lumex's specially formulated ceramic substrate material along with a unique epoxy lens and a process that can cast the lens directly onto the ceramic substrate.

The result is a family of surface-mount LEDs capable of withstanding even old-fashioned wave soldering while providing a usable operating life of 50,000+ hours with no loss in light output levels. Lumex KoolBrite™ LEDs virtually eliminate junction or bonding determination from heat. www.lumex.com

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July 2007

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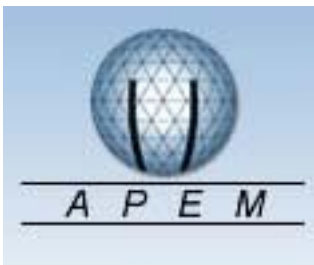
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Apem: New power rocker switches - KR series



APEM's KR series rocker switches feature a new actuator design and come in a wide variety of cosmetic colors. Electrical ratings are 10 to 15A at 12VDC and 8 to 10A at 24VDC.

They are available as illuminated or non-illuminated switches and can be customized by numerous rocker markings. Their modular construction

allows for the ordering of the switch assembly and actuator separately.

An enhanced snap-in device and the absence of frame around the actuator facilitate panel mounting. Accessories like connector or mounting modules are available to simplify installations.

The KR rocker switches are mainly intended for

applications in control panels of buses, boats, agricultural machines and building site vehicles, where they can be associated to other APEM products such as industrial joysticks.

www.apem.com

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