ECN 2007 Readers Choice TECH AWARDS

DC Fans Maximize Static Pressure While Optimizing Air Flow

2007 Winner

Jaro Thermal, Inc. announced the ultra-high-static Revolution series of DC fans. This fan series is suitable for high-powered, thermally managed applications and offers an efficient level of heat dissipation. The fans operate at 242 cfm at .63InAq static pressure. Applications include automotive, blade server, power supply and thermal management industries. The fixed blade design, combined with an air-guiding frame, helps maximize static pressure and air flow. Pricing for the 92 mm 3 38 mm size (AD0912VB-F9BDS) is $5.98 each at 1,000 pieces.

JARO Thermal, Inc.
561-241-6700, www.jarothermal.com

Switch Series Features No Moving Parts, Virtually Unlimited Lifespan

ITW Switches announced ActiveMetal, a rugged touch-sensitive switch series with no moving parts. ActiveMetal switches are available in 19 mm, 22 mm, 30 mm and 38 mm mounting diameters with 316 stainless or Type II anodized (clear, black, red, and green) aluminum 6061 body finish with momentary or latching action. Custom labeling/legending on the actuator surface is also available by laser-etching. They are suitable for the harsh and hazardous environments typical of outdoor, industrial, security, medical, and military applications. Operationally, the ActiveMetal technology has its basis in trapped acoustic resonance combined with rugged metal housings. A finger — or even a thickly gloved, protected hand — touching the front of the switch dampens the vibration. The switches have virtually unlimited life, are not affected by ESD and RFI / EMI (when mounted), and operate at temperatures from -40°C. to +85°C.

ITW Switches
800-336-5469, www.itwswitches.com

High Capacity, 10A Power Relay Achieves High-Voltage 400V DC Cutoff

Panasonic Electric Works introduced a 10A compact power relay with encapsulated contacts. A

400V DC high voltage switching cutoff is achieved because of the hermetically sealed construction and magnetic arc motion using a permanent magnet. No arc space is required because the arc is not exposed. Typical applications for this 1 Form A relay include electric and hybrid vehicles, automatic guided vehicles, construction machinery, inverter control and solar power generation systems. Also new are the small size and light weight; reduced fire hazard; and low operating noise.

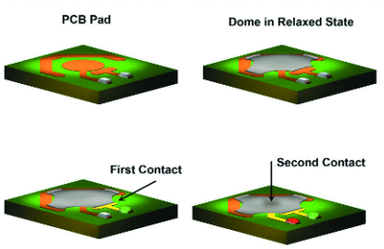
Panasonic Electric Works Corporation
800-276-6289, www.pewa.panasonic.com

Electromechanical Switches Operate Up to 26.5 GHz

Agilent's L Series of high-performance electromechanical switches operate up to 26.5 GHz with a life of 2 million cycles. The series uses terminated and unterminated SP4T and SP6T multiport switches, plus a transfer switch. It also guarantees insertion loss repeatability of <0.03 dB throughout the 2-million-cycle operating life. This capability not only minimizes measurement uncertainty, but also reduces the downtime for recalibration and improves testing efficiency.

Agilent Technologies
800-452-4844 www.agilent.com

Dual Action Tactile Metal Domes



Snaptron's IntelliTac dual action domes (DT-Series) are low profile contacts designed to make two independent electrical contacts with one dome. The patent pending technology allows for separate, progressive contact closures in a single dome switch. Pressing lightly activates the first switch, and further pressure activates the second switch, while still giving the user a tactile sensation. The DT-Series is intended as an advanced alternative to traditional double action switches, and can be used in digital camcorders, still and video cameras, audio equipment, camera phones and portable devices, and other electronic applications. Metal domes are made of stainless steel, with optional gold or nickel plating. Typical dimensional tolerance is ±.005 reference.

Snaptron, Inc.
970-663-2820, www.snaptron.com