



CUSTOMER NEWSLETTER

For those of you who remember my bi-monthly Ram Newsletter, I decided to continue the legacy now that Ram has been acquired by EMA. As with the Ram newsletter, if anyone wishes to opt out, please send me an email message and I will remove you from the distribution. I will try to keep it brief and informative.

Actown – Magnetics - If your toroids are too hot, too noisy, too big or you just need more inductance without increasing the size, then consider Actown's TIGHTpak solution. Actown has learned a lot about producing magnetic components in their 56 years of operation and they are anxious to share that knowledge and experience with their customers. Please visit their web site at: <http://www.actown.com> to learn more.

Aleph – Sensors – For over 40 years Aleph has been providing the electronics and security industries with leading edge technologies and state of the art products. Their portfolio includes reed switches, reed relays, photo interrupters, photo sensors, liquid level sensors and more. Aleph is not afraid to tackle custom applications and value added programs, so if you don't see what you need on their web site, please get us your requirements and we will try to accommodate you. If you haven't already seen it you soon will, but the pricing on reed switches is on the rise (from everyone) because the price of rhodium has reached \$9400.00 an ounce. 5 years ago it was selling for \$472.00. Aleph is willing to lock in pricing on long term orders, so if your existing supplier won't work with you, please contact us. Aleph has a full compliment of distributor partners which are listed on their web site: <http://www.aleph-usa.com>

AMC – Ceramic Capacitors – Advanced Monolithic Ceramics, a Johanson company, manufactures high voltage, high temperature, ceramic capacitors and offers both military and commercial products. Their portfolio includes switchmode power supply caps, planar arrays, leaded and surface mount devices. They also will consider custom form factors if you have unusual requirements that can't be serviced by standard products. Dave Dupre is the applications engineer and can be contacted at: ddupre@amccaps.com AMC is distributed by Arrow, Dependable, Jaco, Newark and SMD. The web site is <http://www.amccaps.com>

Amveco – Toroids – Amveco is a sister company to Actown. Both companies operate under the banner of Acme Electric and are owned by Actuant Corp., a multi-national conglomerate. Amveco is the largest toroid manufacturer in North America. About 80% of their business comes from custom products. Their standard products are stocked in depth at DigiKey. The Amveco web site is: <http://www.amveco.com>

Cambion – Connectors – Cambion is part of the WBL Corp. of U.K. which has been around since 1912. They have a broad product portfolio including coils, inductors, solder terminals, standoffs, battery holders, I.C. sockets, shorting sockets, shorting links and card ejectors. Cambion is distributed many popular distributors in the U.S. market. Their web site is located at: <http://www.cambion.com>

Cosmotronic – MIL/Aero PCBs – Cosmotronic is a quick turn and pre-production bare board manufacturer based in Irvine, CA. They are ITAR registered and have all the necessary MIL spec approvals to handle your government work. They also build to commercial IPC6012 class II and III standards. Those customers dealing with Boeing and their sub-contractors would be interested in knowing that Cosmotronic is also AS-9100 approved. They specialize in rigid to 36 layers, rigid/flex to 18 layers, heavy copper, backplanes, blind and buried vias and will entertain science projects that others will turn down. The Cosmotronic web site is: <http://www.cosmotronic.com>



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EIS Wire & Cable – Specialty Cable – For almost 100 years EIS Wire has operated in S. Hadley, MA producing specialty cable. You would suspect that a mature company in a very mature industry would have nothing new to talk about but Roy St. Andre, their plant manager, would give you an argument on that point. As something of an expert in the area of lean manufacturing, Roy has this business humming like a top. Others will quote 10-12 week lead times while EIS is consistently quoting 3-4 weeks and their on time delivery is excellent. As a cable manufacturer, they are not for everyone, but if you buy bulk wire or have custom needs please contact us. Their web site is: <http://www.eiswire.com>

FCT electronics LP – Connectors – FCT is a multi-national connector manufacturer with ownership in both the U.S. and Germany. They specialize in D-subminiature connectors but also offer CAN-bus, RF and DIN 41612 style products as well as circular back shells. Their willingness to listen to customer needs and respond with tailored solutions has brought them a lot of loyalty from their partners who include many major electronics manufacturers in the military, aerospace, industrial, medical, telecommunications and high end computer markets. FCT is distributed by Mouser. FCT is exhibiting at the MTT-S show (booth 848) in Atlanta in June. Their web site is: <http://www.fctgroup.com>

Isodyne – EMI/RFI Shielding – Isodyne offers a tool-less solder-less braid termination system that is unique to the industry. Employing a constant force spring, this system can be installed and removed/replaced all without any tools. Isodyne has a full compliment of back shells for D-sub, micro-D's, miniature D's as well as circular milspec connectors. Their products are available through distribution at Mil-Stock Electronics and Sea Wire & Cable. Their web site is: <http://www.isodyne.com>

Kaga Electronics – Power Supplies – This month's focus product is external adaptors. Volgen Power (owned by Kaga) has products ranging from 5W wall warts to their newest product, a 90W desktop adaptor which is available in 7 different configurations from 12V to 24 VDC and a universal input from 90 to 264 VAC at 47 to 63 Hz. The supply operates at 80% efficiency and has an MTBF of greater than 50000 hours. Volgen is distributed by DigiKey. Their web site is: <http://www.volgen.com>

Maglayers USA – Chip Inductors & Beads – Maglayers is a major supplier to Apple Computer and many other household names, but most people have never heard of them. Their products are leading edge in terms of size and compliance to world-wide green standards. Product is stocked in depth at their U.S. location in Santa Ana, CA and samples are readily available. We can cross all the popular brands, provide you with world class quality and very competitive pricing. Please review their web site at: <http://www.maglayersusa.com>

Mimix Broadband – GaAs Semiconductors – Mimix was founded as a fabless semiconductor company in 2000. They acquired Tadiran Microwave and merged it into their operations the same year. In 2005 they acquired Celeritek which brought them a wealth of products in the DC-6 GHz range in addition to their high frequency products which operate at up to 50 GHz. They maintain two design centers, one in Ireland and one in Australia but the company is headquartered in Houston. Their products target the microwave and millimeter wave markets and they offer both commercial and MIL/Space qualified products in packaged and bare die. Mimix is distributed by Richardson Electronics. Mimix will be exhibiting at the MTT-S show in Atlanta in June (booth 1423) and their web site is: <http://www.mimixbroadband.com>



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M. S. Kennedy – MIL/Space Hybrids – M.S. Kennedy specializes in military analog power components as well as filters, operational amplifiers, linear and switching regulators, multi-chip modules and motor controls. Their hybrids go into space programs as well as submarines and everything in between. Their lab is DSCC approved to perform radiation testing for military devices per MIL-PRF-38534. Their web site is <http://www.mskennedy.com>

NDK America – Crystals & Oscillators – NDK is the largest manufacturer of crystals and oscillators in the world. If you ever wondered how the cell phone guys can keep adding features and shrinking the size of the product, it is with the help of folks like Maglayers and NDK. They are the state of the art when it comes to small and they have the best phase noise and jitter specs in the market today. One thing I have learned about NDK is that they tend to be somewhat secretive about their latest technology so you don't often see their smallest packages, highest/lowest frequencies, extended or mil temp and other key specs on their web site but the site will give you a flavor for what they can do. It is best to ask if you don't see what you need because they probably can help you. NDK is distributed by Jaco. NDK is a gold sponsor of the MTT-S show and will be exhibiting in Atlanta (booth 909). Their web site is: www.ndk.com

Potato Semiconductor – High Speed Logic – Potato Semiconductor has a funny name but their product is not funny to their competition. Their blazing speed logic, clock buffers, translators and bus switches leave people like Pericom, IDT, TI, ICS, Cypress and Philips in their dust. Contact us for samples and please visit their web site to learn more. <http://www.potatosemi.com>

Rectron – Diodes & Rectifiers – Rectron has been manufacturing diodes and rectifiers for over 32 years. There isn't a lot new about this technology except for the smaller surface mount packages but Rectron has continued to also support the legacy products like 1N4148, 1N914, 1N4000 and 1N4700 series. Their pricing is competitive and the product is distributed by Mouser and SMD as well as others outside the State. The Rectron web site is: <http://www.rectron.com>

RF Lambda – RF/Microwave – RF Lambda has passive, active and waveguide components for the commercial, military, space, broadcast and medical markets. Their passive components include isolators, duplexers, coupler hybrids, combiners, load attenuators and waveguide components. Their active functions include LNAs, pin diode switches, pin diode attenuators, power amplifiers, RF limiter detectors, RF phase shifters, signal generators and frequency converters. Their web site is located at: <http://www.rflambda.com>

Riedon – Resistors – Riedon offers all fashions of resistors including: surface mount foil, metal film, thick film and wire wound as well as their leaded counterparts (with or without heat sinks). They also offer high voltage thick film, current sense, networks, precision and specialty resistors. Their products are distributed by DigiKey, NRC-Jaro and Richardson. Please visit their web site: <http://www.riedon.com>



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Simtek – Non-volatile Memory – Simtek is the world leader in NVSRAM. Their product ranges in size from 16Kb to 4 Mb (512K X 8) and offers very fast access times down to 15 ns. This technology is much more reliable than battery ram and FLASH memory because it features unlimited read/write cycles and you don't have to worry about a battery running out or the cost and time writing software. They also have other versions of their parts with added real time clocks and drop in replacements for some battery rams. When data retention is critical the added cost is a small price to pay for the security. Simtek is distributed by Future Electronics. Their web site is: <http://www.simtek.com>

Sonoma Scientific – RF/Microwave – Sonoma Scientific manufactures circulators, ferrite isolators, attenuators/detectors, waveguide, microstrip, mixed interfaces and high power RF components. Standard products range from 150 MHz to 26 GHz. Custom applications are welcome and please visit their website: <http://www.sonomascientific.com>

Synergy Microwave – VCO's/Synthesizers – If you subscribe to Microwave Journal, then the name Synergy Microwave should not be a mystery to you. Dr. U.L. Rohde and Dr. A.K. Poddar have been prolific in their research papers which are frequently published in the Journal. With design centers in Germany and the U.S., Synergy has distinguished itself as a leader in broad bandwidth VCO's and synthesizers. Their low phase noise is industry leading. They hold 15 patents and 10 more are pending. Their web site gives you a good idea of their capabilities but if you don't quite see what you need, please contact us with your requirements. Synergy is exhibiting at the MTT-S show in Atlanta (booth 900) in June. Please stop by the booth if you attend and their web site is: <http://www.synergymwave.com>

TennMax USA – EMI/RFI & Thermal Solutions – TennMax is a Taiwanese company that thinks of themselves as a problem solver rather than just a dispenser of form in place gasketing, although they do that well too. TennMax helps solve system wide thermal problems as well as EMI and RFI issues. With technologies like heat pipe modules and liquid cooling, they keep the fastest FPGA's running cool in tight spaces and solve all types of EMI/RFI issues with pressure gasketing covers, pressure formed covers, PVD flex circuits, PVD precision parts, clamshell covers, silicone and foam gasketing. They will dispense their materials as well as those of Chomerics and Laird but they prefer to be looked at as a system solution. They have relationships with Asian plastics manufacturers and machine shops and can provide a turnkey solution at a very cost effective price. Please visit the web site: <http://www.tennmaxusa.com>

United Electronics – Rigid PCB's – United Electronics is a bare circuit board manufacturer based in Rosemont, IL where they operate a 70,000 square foot quick turns/medium production facility. They can handle lower technology circuit boards up to 12 layers. They own a second facility in India (60,000 square feet) with a lower cost labor model, that can handle up to 8 layer boards in 4-5 weeks. Their web site is: <http://www.unitedel.com>



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Volex – Cable Assembly & Power Cords – Perhaps best known for their power cord dominance, Volex also offers custom cable assembly for data cables, fiber optic, RF cables and has their own line of V-Lock power connectors and RF connectors. With manufacturing facilities throughout Asia, no job is too large for Volex. Their web site is <http://www.volex.com>

Winonics – Commercial PCB's – Winonics is a sister company to Cosmotronic (listed earlier in my newsletter). Winonics has two facilities (Brea and San Diego, CA) and has similar capabilities as Cosmotronic except for the military approvals. They specialize in backplanes, high layer count rigid, high layer count rigid/flex and heavy copper. They can do 24 hour prototype orders and 5 day production orders. Their web site is <http://www.winonics.com>

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