



CUSTOMER NEWSLETTER

Acme Electric – Magnetics –Over the past 50 years Actown has developed processes for all types of applications including: 1) two part resin fill with silica granules for effective thermal cooling, 2) transfer molding for durability in the toughest environments, 3) varnish dip for additional insulation, quieting and appearance, 4) vacuum impregnation for better insulation characteristics, 5) liquid fill resins for extremely durable performance, 6) computer data acquisition for immediate process evaluation and control, 7) automated programmable transformer testers, 8) computerized labeling (bar coding) and serial numbers, 9) EDI electronic data transfer and 10) client server network for inventory, purchasing and sales functions. Their sister company, Amveco, has focused their attention on toroids and today they are the largest toroid manufacturer in North America. Both companies can quickly provide a computer generated preliminary design or build products to your specifications. Please visit the Acme Electric company web sites at: www.actown.com and www.amveco.com for more information.

Advanced Monolithic Ceramics (AMC) – Capacitors – AMC's focus products for this issue are their military approved devices. AMC has had a long standing commitment to the high reliability market. Here are the series that they support: MIL-PRF-49470, and DSCC drawings 87106 and 88011 (switch mode power supply capacitors) and 87040, 87043, 87046, 87047, 87070, 87076, 87077, 87114, 89044 (high voltage radial drawings). Their lead times are typically better than their larger competitors and pricing is competitive. Please visit their web site at: www.amccaps.com

Cambion – Transformers – Cambion has been in the coil form business for many years but customers may not be aware that they are also actively involved in winding coils. They have capability to handle high volume production business and can assist you in your design. Cambion also offers low cost custom made transformers. A variety of styles can be manufactured including: E core, C core, ETD, EFD, RM, EP and Balun. These transformers are designed for use in a wide range of power supply units which have applications across the following markets: telecom, military, aerospace, medical, lighting, and camera flash lights. For more information visit their web site at: www.cambion.com or call your EMA sales rep for samples.

Combat Warrior Sales – Service Disabled Veteran – Combat Warrior Sales is essentially a broker business, but with a slightly different twist. EMA has a minority interest in this company and most of our principals are happy to assist their customers with their set aside mandates. When we deal with these suppliers, we are a business partner and we negotiate pricing at the highest levels of management within those organizations (not an inside sales person quoting column pricing to a broker). This is how we can be competitive with the mega-distributors. We also do something they won't or can't do... stock inventory for our customers. If you have some ugly ducklings that are perpetually shutting down your line, please contact us and we will see if we can help you find a solution. Web site: www.combatwarriorsales.com



CUSTOMER NEWSLETTER

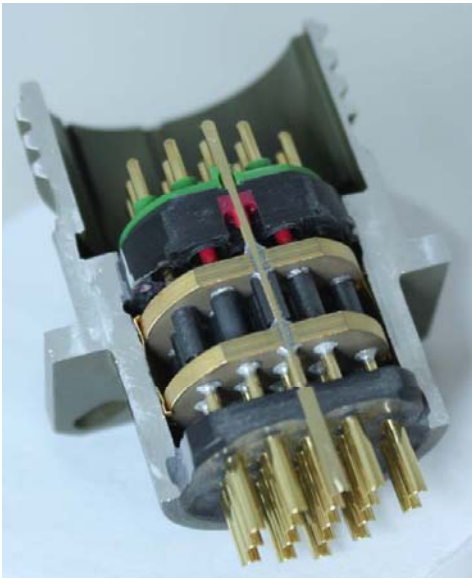
Cosmotronic – Military & commercial bare boards – Cosmotronic has updated their web site, so if you have not checked them out recently, have a look. Cosmotronic has been in business for 38 years and has been a strong player in the military rigid/flex market. Winonics, their sister company, has just invested in a new Excellon LVD Cobra hybrid laser system. This will add new capability for both companies. Cosmotronic's web site is: www.cosmotronic.com Winonics web site is: www.winonics.com



Delphi Connection Systems – Mil/Aero Connectors – Most people think of General Motors when they hear the name Delphi. That is their legacy. After spending 4 long years in the purgatory of Chapter 11 bankruptcy, Delphi emerged on Oct. 6th as a newly revived, well financed, privately held \$15B company. EMA has struck a deal to represent their mil/aero connector division which represents about \$80M in annual sales. Delphi specializes in fiber optic connectors – MIL-C-28876, MIL-T-29504/4 & /5 as well as /14 & /15 and MIL-PRF-83526. Delphi also supports copper solutions with MIL-C-28840 circulars and a variety of other products. In addition Delphi provides customer specific solutions like bump flex assemblies, cable and harness assembly and box builds. Please visit their web site at: www.delphi.com/manufacturers/other/connectors

EverSpin – Non-volatile RAM – EverSpin has formally announced the availability of their serial interface products. Available in 256k, 512k and 1 mb densities, these non-volatile SRAMs conform to the industry standard SPI interface and are available in both commercial and industrial temperatures. These products operate at 2.7 to 3.6 V and feature a low operating current, standby mode and sleep mode and are housed in an 8 pin DFN package. Their 16 mb parallel devices will be sampling in May with production quantities available in July 2010. To learn more about their technology, visit www.everspin.com

Filconn – Filter connectors –Filconn is a new line at EMA. Rick Taylor, their president, has been in the mil/aero filter connector business for over 30 years and has trained many of the people working for his competitors. Filconn is a solution company. You won't find a catalog or standard parts list on their web site because they offer customer specific solutions based on products like 26482, 38999, D-sub, micro D, ARINC404 and 600 series. Employing planar capacitor technology, Filconn supplies Pi filters and can also handle applications for lightning and surge protection. No job is too big or too small. Filconn can also supply the entire end to end solution with cable and harness capability. The picture below shows a cross section of a 38999 Pi filter connector. Filconn's web site is under construction because it is being completely revamped and should be operational soon with lots of pictures of projects they have done. Coming soon: www.filconn.com



Isodyne – EMI back shells –Why buy Isodyne back shells? Check the picture below for one obvious reason.... size and weight savings. Aside from this, Isodyne is tool-less because it uses a spring band, the slotted back shell eliminates the need for solder sleeves which means you save money on the cost of solder sleeves, save money on the labor since you don't need to install solder sleeves and improves your reliability because you don't have to use troublesome solder sleeves. The spring band provides a reliable 360 degree termination to the back shell for your shielded twisted pairs. Contact EMA or visit: www.isodyneinc.com for more information.



MagLayers USA – Chip beads & Inductors – MagLayers, has introduced a new high power surface mount power inductor. The MMD-20JZ-100M is 10 uH at 19A. MagLayers has an entire family of molded plastic surface mount power inductors. Please check out their web site is: www.maglayersusa.com

NDK America – Crystals & Oscillators –NDK reported on their web site that counterfeit NDK product is surfacing in Asia. This is a major problem for customers today but can be avoided by dealing only with authorized sales channels that can provide traceability. In other news NDK has been advised by DSCC that they are a qualified source for oscillators. The plan is to offer XO's and VCXO's in the 5 x 7 mm and 9 x 14 mm packages and OCXO's per customer specs. The product will be designed in Belvidere, IL at NDK America and manufactured to NDK's specifications (with NDK crystals) at a subcontractor in Texas. NDK's web site (for other product information) is located at: <http://www.ndk.com>

Prototron Circuits – Prototype Bare PCB's – Prototron has been producing PCBs for 22 years. Based in Redmond, WA they are the largest circuit board shop in the North West. In 1999 they acquired South West Circuits of Tucson, AZ which is a legacy military approved fabricator. Prototron's specialty is quick turn prototype and medium volume production. Their normal lead time is 5 days but they can deliver boards up to 14 layers in 24 hours and up to 30 layers in 72 hours. They offer ENIG, immersion silver and immersion white tin finishes. Other capabilities include .003"/.003" lines/spaces, high aspect ratio plating, impedance modeling and testing, blind and buried vias, silver filled vias, conductive carbon ink and board thickness to .25". The Tucson facility is 31032 approved and ITAR registered. Please visit their web site for more information. www.prototron.com

Riedon – Resistors – Riedon's web site has a great cross reference tool on it. If you are stuck with a long delivery from your regular source of precision resistors, you might check it out. You can type in the part number series or manufacturer and it will bring up the corresponding Riedon part series which will save you a lot of time scouring web sites and data sheets. Then call us for a sample request or quotation. The web site is www.riedon.com



CUSTOMER NEWSLETTER

RO Associates – Brick Power Supplies – RO Associates is going to be making some major announcements soon so stay tuned to their web site. We can't say any more. www.roassoc.com

Synergy Microwave – VCO's/Synthesizers – Synergy has long been known as a technology leader in the VCO market. Their patents speak for themselves. This year alone they were awarded 6 U.S. patents and 3 Canadian patents. Their technology is solid and so is their support before during and after the sale. Please contact us for any special requirements you may have and for additional information go to www.synergymwave.com



CUSTOMER NEWSLETTER

Distribution Information:

Acme Electric (Acme, Actown, Amveco) – [DigiKey](#), [Go Electronics](#)
AMC (Advanced Monolithic Ceramics) – [Arrow](#), [LXI](#), [Newark](#), [Simcona](#), [SMD](#)
Cambion – [Bisco](#), [Century Fasteners](#), [GE Supply](#), [Heilind](#), [Newark](#)
Combat Warrior Sales – None – **call 919-847-3188**
Cosmotronic – None – **send Gerber data to quote@cosmotronic.com**
Delphi – [Astrex](#), [Kitco](#), [Koehlke Components](#)
EverSpin – [Arrow](#), [Avnet](#), [DigiKey](#), [Farnell](#), [Future](#)
Filconn – None - **send quotes to your EMA sales rep**
Isodyne – [Combat Warrior Sales](#), [Mil-Stock](#), [SEA Wire & Cable](#)
Kaga Electronics (Volgen Power) – [DigiKey](#)
Maglayers – [Edge](#), [Projections Unlimited](#)
NDK – [Dependable](#), [Dove](#), [WPG Americas \(formerly Jaco\)](#)
Prototron Circuits - None - **send quotes to your EMA sales rep**
Rectron – [Chris Electronics](#), [Edge](#), [Mouser](#)
RF Lambda – None – **send quotes to michael@rflambda.com**
Riedon – [DigiKey](#), [NRC](#)
RO Associates – None - **send quotes to your EMA sales rep**
Synergy Microwave – None – **send quotes to garcia@synergymwave.com**
TennMax USA – None – **send quotes to jeff@tennmaxusa.com**
United Electronics – None – **send Gerber data to bill.sales@unitedel.com**
Volgen Power – see [Kaga Electronics](#)
Winonics – None – **send Gerber data to rfq@winonics.com**

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