



CUSTOMER NEWSLETTER

Acme Electric – Magnetics – Amveco Magnetics Inc. (division of Acme Electric) holds certificates from both North American and International Safety Standard Testing Laboratories in addition to having their facilities certified to ISO9001. Amveco maintains an active policy of investing in family approvals of different domestic and international safety standards in direct response to market needs and to better serve its customer base. Family approvals eliminate the need to send new designs for testing. Here is a list of standards included: **UL506** (general purpose transformers – file # E122978), **UL1411** (audio, radio and TV products – file # E115143), **UL1950** (information technology equipment, electrical business equipment – file # E138299), **UL544/UL2601** (medical and dental equipment – file # E138299), **CSA22.2 No. 66-1988** (specialty transformers – file # LR86989), **CSA22.2 No. 601-1 M90** (medical standard for Canada – file # E138299), **IEC601.1** (medical standard for international installations) and **EN60601** (medical standard for European installations). Amveco can also provide test data and construction documentation required by regulatory agencies. The major agencies throughout the world have already tested Amveco's standard lines and certification for most toroid applications is on hand. UL, CSA, TUV and CE marking is an available option. Amveco is the largest toroid manufacturer in North America. Their web site is at www.amveco.com

Advanced Monolithic Ceramics (AMC) – Capacitors – Our focus this month for AMC is military products. AMC's DSCC approvals cover two families of parts. The first is the switchmode power supply capacitors covered by file numbers **MIL-PRF-49470** (500V all cap values; case size 3, 4 & 5; level B), **87106** (50V to 500V X7R) and **88011** (50 to 500V NPO). The second family is high voltage radial capacitors covered by file numbers **87040** (2KV X7R), **87043** (1KV X7R), **87046** (1KV NPO), **87047** (3KV X7R), **87070** (5KV X7R), **87076** (4KV NPO), **87077** (5KV NPO), **87114** (3KV NPO) and **89044** (4KV X7R). Please visit their web site at: www.amccaps.com

Cambion – Connectors – Cambion recently introduced 0603 and 0402 chip inductors to compliment their already existing 0805 and 1008 products. Wound on ceramic formers, these inductors exhibit superb thermal stability. Their high self resonating frequencies and higher than average Q values, make them ideally suited for applications such as mobile phones, GPS, Bluetooth, wireless LAN etc. Part number series **555-0403** covers values from 1 nH to 47 nH. Part number series **555-0603** covers values from 1.8 nH to 120 nH. For more information visit their web site at: www.cambion.com or call your EMA sales rep for samples.

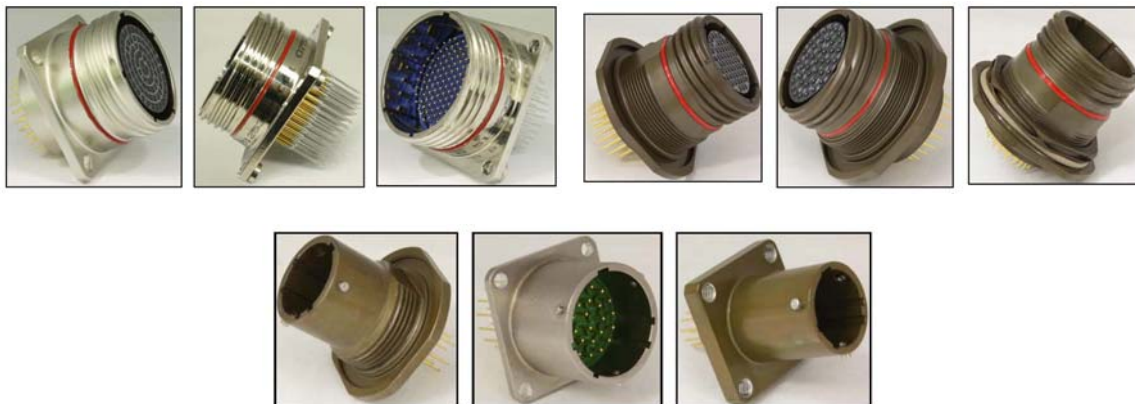
Cosmotronic – Military & commercial bare boards – Cosmotronic (based in Irvine, CA) has been operating as a military circuit board fabricator for almost 45 years. It was founded as a family owned business originally but later sold to Thayer Capital in 2001. In 2006 their current owner, JR Controls, acquired the company. After several years of neglect, they now had an owner with a strong background in the PCB business and the means to invest in new equipment to put them back on track as a world class operation. Specializing in high technology rigid and rigid/flex, Cosmotronic is qualified to MIL-PRF-31032/55110. They are also registered with ITAR, ISO9001 and AS9100. JR Controls also has two other operations – Bench2Bench specializes in commercial flex and Winonics is a commercial rigid shop. The web sites are: www.bench2bench.com www.winonics.com and www.cosmotronic.com

Delphi Connection Systems – Mil/Aero Connectors – The focus product for this issue is **MIL-C-28840**. This series is high contact density, harsh environment connector designed to provide reliability and meet the most demanding environmental conditions and RFI/EMI shielding requirements. A unique retention system provides a retention clip on the contact to offer maximum economy and improved field serviceability. The MIL-C-28840 series offer improved reliability and service life with the following: enhanced RFI/EMI shielding with special no-gap grounding fingers, advanced moisture sealing with 4 wire glands instead of 3 and greater insert retention with mechanical/bonded system. Please visit their web site for more information at: www.delphi.com/manufacturers/other/connectors



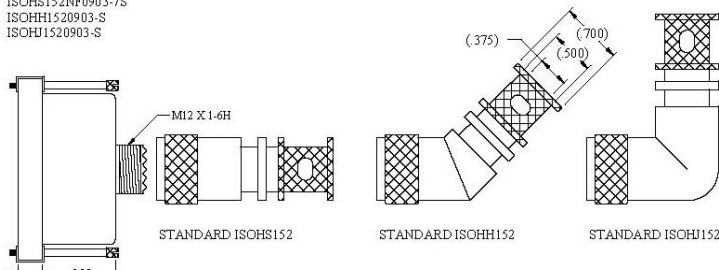
EverSpin – Non-volatile RAM – EverSpin has received first silicon on their new 16 mb MRAM. The wafers will need to be characterized and design verified but we are expecting to have samples by May and full production by August. EverSpin engineers have already kicked off their 64 mb design. To learn more about their technology, visit www.everspin.com

Filconn – Filter connectors – If your systems use **38999** type connectors with PCB tails, you should be talking to Filconn about cost savings, reduced lead times (4-5 weeks) and value added services that can make your installations easier. All standard plating and custom finishes are available. Clinch nuts or helicoils can be included for ease of installation. Custom PCB standoffs or threaded bosses can be included. Termination tails can be solder coated and flange locations can be adjusted to meet your needs. Their web site is: www.filconn.com



Isodyne – EMI back shells – Isodyne introduced a new D-sub spring band back shell that ships with three different threaded adapters – a straight, a 45° and a 90°. The **ISOVSDS** is currently available for shell size 1 and 2 but it is expected that the whole family will eventually be supported. Isodyne will be exhibiting again this year at the 707 Work Group Conference during the last week of April. Many of you have asked who is using Isodyne back shells today. It is hard to find a military aircraft (either fixed wing or rotary) that doesn't use them. Their key considerations (aside from the obvious benefits of the technology) are size, weight and ease of use. Isodyne is also used on many of the Army's vehicles including MRAP, Stryker, Bradley and M1A1. Contact EMA or visit: www.isodyneinc.com for more information.

BACKSHELL IS SUPPLIED WITH 1 EA.
ISOHS152NF0903-7S
ISOHH1520903-S
ISOHJ1520903-S



NDK America – Crystals & Oscillators – NDK is in full production on the smallest crystals on the planet. The **NX1612AA** measures 1.6 x 1.2 x .3 mm and is available in frequencies from 20 to 80 MHz over the full industrial temperature range (-40+85°C). NDK also has a tiny crystal clock oscillator – the **NZ2016SA** which measures 2 x 1.6 x .7 mm. This device is also available in full industrial temp and is offered in 1.5 to 80 MHz. Check the web site for complete specs at www.ndk.com

Prototron Circuits – Prototype Bare PCB's – Prototron is a bare board shop that specializes in quick turn prototype orders. For the past 5 years Prototron's on-time delivery is 98.3%. They can actually deliver boards up to 16 layers in 24 hours although standard lead time is 5 working days. Prototron can build and test differential pairs anywhere from 75 ohms to 140 ohms differential with typical impedance tolerance of ±10% and validate the results via their in house test system. Please visit their web site for more information on their capabilities at www.prototron.com

RF Lambda – RF Connector-ized Components – RF Lambda manufactures active, passive and waveguide components for the wireless market. RF Lambda offers circulators, isolators, dividers, combiners, load attenuators, couplers, LNAs, pin diode switches, RF limiters, pin diode attenuators, phase shifters, frequency converters and power amplifiers. Please visit their web site at: www.rflambda.com

Riedon – Resistors – Riedon has been operating for almost 50 years as a manufacturer of precision resistors. Their headquarters in Alhambra, CA focuses on wire wound resistors and their Berlin, Germany facility supports film and foil resistors. Their portfolio includes leaded and surface mount, heat sink and high voltage, thick and thin film, current sense, networks, precision and specialty resistors. The Riedon web site is www.riedon.com



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RO Associates – Brick Power Supplies – Astrodyne Corporation (“Astrodyne”), a leading provider of power solutions, announced it has acquired the assets of specialty power supply manufacturer RO Associates from Emrise Corporation (ARCA.ERI). RO Associates is an engineering company and pioneer in the development of module-based power conversion solutions, which are now a mainstay in military, industrial and other harsh environment markets. Current products are deployed on airborne, shipboard and land vehicle applications, as well as a variety of industrial and medical products. Based in the Silicon Valley, RO Associates has developed a broad product line of high quality, highly efficient products.

Peter Murphy, President and CEO of Astrodyne, commented “The inclusion of a well established provider of high-end products to the military and other demanding markets complements Astrodyne’s already significant product offerings. With over 4000 SKU’s already available to our customers we are adding a high-reliability product line that we see demand for in many of our traditional markets. We are especially pleased to add the talented RO Associates engineering team to our company as we seek to accelerate the introduction of new products for emerging applications.”

Astrodyne Corporation, headquartered in Mansfield, MA designs, manufactures and solves power conversion challenges worldwide. With over 4000 cost-effective standard and modified standard products, Astrodyne’s power solutions span a broad array of markets and applications. Their industry leading phone and instant online technical support delivers rapidly engineered solutions in response to each customer’s unique power requirements. For more information about Astrodyne Corporation and its products, please visit the company’s web site at www.astrodyne.com RO Associates web site is www.roassoc.com

Synergy Microwave – VCO’s/Synthesizers – Synergy will be exhibiting at the IMS show in May once again this year. Please visit their booths #1400 & #1500. Every month they are adding new members to their .3” x .3” VCO family. They have now expanded the upper end with 3 new devices from 10.7 GHz to 12.2 GHz and 5 new devices on the low side from 500 MHz to 3.4 GHz. Please contact us for any special requirements you may have and for additional information go to www.synergymwave.com



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Distribution Information:

Acme Electric (Acme, Actown, Amveco) – [DigiKey](#), [Go Electronics](#)
AMC (Advanced Monolithic Ceramics) – [Arrow](#), [LXI](#), [Newark](#), [Simcona](#), [SMD](#)
Bench2Bench - None – **send quotes to your EMA sales rep**
Cambion – [Bisco](#), [Century Fasteners](#), [GE Supply](#), [Heilind](#), [Newark](#)
Combat Warrior Sales – None – **call 919-847-3188**
Cosmotronic – None – **send quotes to your EMA sales rep**
Delphi – [Astrex](#), [Kitco](#), [Koehlke Components](#), [TTI](#)
EverSpin – [Arrow](#), [Avnet](#), [DigiKey](#), [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 – [Alfa Electronics](#), [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 your EMA sales rep**
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 quotes to your EMA sales rep**
Volgen Power – [see Kaga Electronics](#)
Winonics – None – **send quotes to your EMA sales rep**

This newsletter is published by Tony Meyer

Electronic Marketing Associates Inc.
726 W. Pinewood Ct.
Lake Mary, FL 32746
(407) 774-6010 (Office)
(407) 774-7866 (FAX)
(407) 687-1013 (Cell)
tmeyer@emarep.com