



## CUSTOMER NEWSLETTER

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**FCT electronics LP – Connectors** – FCT has grown in the U.S. market by being more responsive than their competition (folks like Tyco, ITT Cannon, Positronic and others). When a customer has a problem, we find a solution even if it is not a standard product offering. Many of their standard products evolved from this type of solution selling. Don't make the assumption if you don't see something on their web site or catalog that they can't do it. The web site is not updated that frequently but their product strengths are screw machine contact D-sub and accessories (particularly the standard and mixed signal series). FCT is also a strong player in RF connectors, DIN41612 connectors and board to board headers and they are a distributor for Daniels tools. Please contact your EMA rep for more information.

**Isodyne – Back Shells** – Isodyne has introduced a lot of new products in the past few months so if you didn't find what you were looking for in the past, please re-visit their web site. It is no secret that most of their product is manufactured by Glenair, the 800 pound gorilla in the back shell market. The reason why Isodyne is successful is their innovation and responsiveness to customer design needs. You might wonder why they don't have the same lead times as their competitors and the main reason is the inventory on the shelf at both Isodyne and their distributor SEA Wire & Cable. Between the two they have over \$5M worth of back shells sitting on the shelf waiting for your orders. Whether it is a circular, D-sub, micro D, ARINC or custom connector, Isodyne has solutions for all. Eliminate solder sleeves and put the savings from material cost and labor in your pocket with Isodyne's patented slotted back shell with lock springs. They also work with composite materials if you have weight issues. The web site is: <http://www.isodyne.com>

**Kaga Electronics – Power Supplies** – I learned something new this month about Kaga. Their Volgen Power division in Japan will do custom power supply designs, if the opportunity is right. The cost of NRE is surprisingly low too. It is just one more weapon in their arsenal. Volgen offers DC/DC converters, wall warts, desktop adaptors, open frame and metal enclosed power supplies and medical grade products. In addition to Volgen Power (which they own 100%) Kaga also trades in about 9 other power supply companies which they have a smaller equity in, so if Volgen doesn't offer what you are looking for (as a standard) and you don't have the volume for a custom, Kaga may be able to help with a solution from one of their other partners. The Volgen web site is: <http://www.volgen.com>

**Luminary Micro – Microcontrollers** – EMA has signed Luminary Micro in Florida and Puerto Rico. You may not have heard of this company because they are a relatively new player in the market. Founded as a fabless semiconductor company, Luminary's product is manufactured on TSMC's .25 micron 8" wafers in Camas, Washington. Currently they offer 134 different iterations of micros using ARM's Cortex-M3 core with features like full speed USB, Ethernet MAC and PHY, CAN Bus and a whole host of other options. Product development is made easy with the readily available low cost design kits as well as many 3<sup>rd</sup> party tools. If you are tired of learning new architectures every time your 8 bit micro runs out of gas, switch to Cortex-M3 and learn one architecture for all your micro needs. The products are so inexpensive that you can use them in 8, 16 and 32 bit applications. In volume the Stellaris family pricing starts at a \$1. That's a lot of computing power for a buck (62 MIPS). Even if you are using ARM7 or ARM9 you may want to move over to Cortex-M3 for more performance and by the way, ARM is a big investor in the company in case you were wondering. The Luminary web site is: <http://www.luminarymicro.com> Luminary components and the design kits are available through Arrow, Avnet/Memec, DigiKey and Mouser.



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**Mimix Broadband – GaAs Semiconductors** – Mimix Broadband has introduced a highly integrated 10-16 GHz GaAs pHEMT receiver in a QFN package measuring 4 X 4 mm. The XR1015 integrates a low noise amplifier (LNA), image reject mixer and LO buffer amplifier. The RoHS compliant device has a noise figure of 2.5 dB and conversion gain of 12 dB. The image reject mixer eliminates the need for a band pass filter after the LNA to remove the thermal noise at the image frequency. The device is well suited for point-to-point radio, LMDS, SatCom and VSat applications. The device is 100% RF and DC tested. Engineering samples are available now and lead time is 14 weeks for production quantities. Also recently announced was the XG1001 .05 to 4 GHz dual high dynamic range amplifier in 8 pin SOIC package. The device delivers +44 dBm output IP3, 2.1 dB noise figure and 13 dB gain at 2 GHz. The combination of low noise figure and high IP3 at the same bias point makes it an ideal transmit or receive solution when used in applications like CATV, cellular and PCS, MMDS and WLAN. Please visit the Mimix web site for more information and contact EMA for samples. <http://www.mimixbroadband.com> Mimix also announced in July that they had received a \$10M investment from GaAs Labs. The funds will be used to pay off debt and provide additional working capital for their fast growing business.

**M. S. Kennedy – MIL/Space Hybrids** – M.S. Kennedy has introduced a new plastic encapsulated module (PEM) half bridge offering 600V 800A performance. The MSK4802 is available in MIL-PRF-38534 Class E, H, or industrial screening. The device is just one of a family which features low inductance power lugs and “first in last out rule” layout design. The high thermal conductivity Silicon Nitride substrate provides excellent heat transfer from the power die to the heat sink, which results in lower junction temperature and higher reliability. The MSK4852 three phase bridge with brake was also announced. The device is rated at 1200V 150A. Both devices feature M.S. Kennedy’s proprietary coating, SEESTM - Severe Environment Encapsulation System which provides near hermetic encapsulation that withstands the HAST (High Accelerated Stress Test) and assures long term reliability. Please visit the web site for additional information. <http://www.mskennedy.com>

**NDK America – Crystals & Oscillators** – NDK was a gold sponsor at MTT-S in June. If you stopped by their booth, you would have seen their salt and pepper shakers. It featured synthetic quartz in the salt shaker and their new 2016 crystals in the pepper shaker. This 2.0 X 1.6 mm package is the smallest crystal in production today. They aren’t stopping there either. A smaller package is in development already. The big winner lately has been their NT2520 TCXO. With stability of .5 ppm and a 2.5 X 2.0 mm package, this device has been finding a lot of new customers and is suitable for GPS applications. Although it hasn’t been widely publicized, NDK also offers Stratum 3 synchronous timing solutions. Please visit their web site for more information: <http://www.ndk.com>

**Synergy Microwave – VCO’s/Synthesizers** – Synergy kicked off a bunch of new products at the MTT-S show in June. If you haven’t been to their web site lately you might want to check out the new power dividers, 90 degree hybrids (to 20 GHz), bi-directional couplers (to 20 GHz), double balanced mixers, synthesizers and VCOs. Perhaps the biggest advance in technology is their printed resonator which eliminates long lead times associated with conventional resonators, performs better because they are less susceptible to phase hits and allows for wide bandwidths in a single device. Not only do they save you money and increase performance but they provide huge benefits in board space reduction by reducing the number of VCO’s required. This is enhanced further by the size reduction of their new DCO/DXO family, which is in a .3” X .3” package. Please visit the web site: <http://www.synergymwave.com>



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**Voilex – RF Connectors & Cable Assembly** – One of the best kept secrets at Voilex is their antenna business. When you think about it, often times an antenna is simply a wire with an RF connection so when we were approached by a customer who had a large utility application, we figured out how to help him. Antennae now represent more than 5% of Voilex sales and it is growing as the world goes more toward wireless solutions. Whether you are designing a utility meter or a WIFI product, please keep us in mind for your antennae needs. Voilex has factories all over the world and has been in business over 100 years. Based in Manchester, U.K., Voilex still does the wiring harnesses in the London cabs and has done Rolls Royce cars since they were first introduced to the market. Their web site is: <http://www.voilex.com>

**Gasoline Tips** – With the cost of gas so high these days I think everyone could use this information, so pass it on to your friends and co-workers. I got these tips off the internet from a gentleman that works on the Kinder Morgan Pipeline in San Jose, CA so I take no responsibility for the accuracy, but if it works for you..... 1) Only fill your tank in the early morning if you can because the storage tanks are underground (usually under asphalt) and as the gas warms up it expands. The pumps do not have temperature compensation. 2) If there is a pump trigger lock, set it at the lowest setting. It takes longer to fill your car but the pumps have a vapor return and if you pump gas faster, some of the liquid turns to vapor and is sucked back. 3) Fill your tank when it is half empty instead of waiting until it is low. Gas evaporates faster when there is more air in the tank. 4) Avoid gas stations when they are being re-stocked. That big tanker is pumping gas into the storage tanks and stirring things up. There is sediment in the tank which winds up in your car.

**EMA Web Site News** – The EMA web site will be moving to a new server as soon as I can arrange for the transfer. Our web site has not been updated in well over a year but you can expect that to change. We hope to make it both user friendly and easy to navigate. Our line card varies from State to State so I will probably put up a separate page for each location to avoid confusion. As with the Ram web site, I hope to get lots of suggestions about content, but you can expect to see links to the suppliers, new product information, sample and literature order forms as well as our contact information.

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