

FTW (www.FTWLLC.net) is a Manufacturers' Representative with a focus on **Power Components, and Products**. We have developed a well-balanced set of suppliers to meet your entire product and support needs. Our territory is the greater Southwest, but primarily Arizona, New Mexico, and Nevada. We are here to serve you with fast and responsive service, with a thorough knowledge of our offerings.

COMPONENTS

Qorvo PDS formerly United Silicon Carbide, Inc. (www.Qorvo.com, UnitedSiC.com) **SiC PRODUCTS**

UnitedSiC is changing the way energy is processed through breakthrough Silicon Carbide (SiC) technology. UnitedSiC power semiconductor products deliver industry-best efficiency, greater power density, and higher reliability than comparable silicon superjunction and SiC MOSFET devices. Available in industry standard packaging, this SiC product family includes FETs specified at 650V, 750V & 1200V with RDS(on) ranging from 7mΩ to 410mΩ, to normally-on JFET devices and JBS diodes, both rated at 650V-1700V. Check out the new Gen 4 SiC FET products that deliver an entirely new level of performance, efficiency, reliability and overall cost effectiveness.

CapXon (www.CapXonGroup.com) **ELECTROLYTIC, POLYMER, HYBRID CAPACITORS**

CapXon is a global leader in Electrolytic Capacitors and is **IATF 16949 Certified**. They offer aluminum electrolytic, conductive polymer and hybrid electrolytic capacitors as well as etched and formed aluminum foil. The full Hybrid Polymer library of products and various series of electrolytic caps are **AEC-Q200 approved** with high temperature ratings of up to 150°C & high vibration capabilities of up to 30G. Product range starts at 4mm diameter cans in SMD up to large screw capacitors with 650V values. The 40 years of experience in electrolytic capacitors, patented technologies, and a monthly overall production capacity of one billion pieces gives our customers the needed technology and stable product supply for all of their needs. Whether it is an off the shelf capacitor from their 100 catalog series components, or as customized solution, which is tailored to your application, CapXon has the electrolytic capacitor solution for you.

Polycharge America, Inc. (www.Polycharge.com) **NANOLAM CAPACITORS**

Capacitors produced using Polycharge NanoLam Technology are hitting the market in force. Polycharge NanoLam capacitors, especially for DC link applications, are about 30% - 50% the size of polypropylene film caps, can handle environments up to 140C, can handle similar ripple currents, and can maintain capacitance at high frequencies.

Xiamen Faratronic (www.Faratronic.com.cn) **FILM CAPACITORS**

Faratronic is the leading film capacitor manufacturer in the world and can produce most all kinds of film capacitors, including PCB film, DC-Link, IGBT snubber, AC motor and AC filter capacitors. Faratronic has a very strong Research Department with a 10,000 square meter center. The testing center, one of the largest in the world, is ISO17025 certified. Faratronic is very flexible and can also produce customized film capacitors according to a customer's request.

Richardson Electronics, LTD. (www.RELL.com) **NATIONAL ELECTRONICS**

RELL is a power electronic product and component distributor, offering numerous brands including their own National Electronics brand. Other products offered are: power discretes and modules (**SCRs, Diodes, IGBTs, Super Junction MOSFET, IGBT Power Stacks, Si and SiC devices, GaN power transistors**), a full array of capacitors (**electrolytic, film, RF power ceramic, Vacuum, Mica etc.**), **ultra-capacitors** (aka. **supercapacitor** or electric **double layer capacitor**), Magnetics, Power resistors, and thermal management products (**heatsinks, fans, cooling plates, etc.**).

Ideal Power (www.idealpower.com) **BI-DIRECTIONAL Si SWITCH**

B-TRAN Technology, is a Bidirectional switch that allows a user to reduce the number of switching components by a factor of 4 when compared to a circuit using an IGBT with diode topology. Ideal Power is able to achieve this amazing feat by using a patented architecture, and fabricating on both sides of the wafer. Losses are lower (by a factor of 5), component count is lower, therefore costs are lower.

PRODUCTS & SERVICES

FEDCO Batteries, Inc. (www.FedcoBatteries.com)

BATTERY PACKS & CELLS

FEDCO is the nation's largest value-added **battery distributor** serving the information technology industry. Fedco also is a leading designer, engineer and manufacturing expert of **custom, high quality battery packs** that coupled with ac adapters and dc power adapters and chargers and electronics, provides a total power solution. Established in 1975, Fedco has become one of the most respected names in the battery industry through our commitment to provide high quality products at competitive prices along with unsurpassed customer service.

Made-Right Precision Manufacturing, LLC (www.maderightonsize.com)

CNC & MACHINE SHOP

Made-Right is a CNC job shop specializing in Milling work. The **experienced, highly trained and talented** Machinists are the corner stone to their success. Utilization of the latest technology is key to producing parts right the first time. Their high-speed machining centers are also capable of **3d mold work**. They work with a wide variety of materials including plastics and other non-typical materials.

Typhoon HIL (www.Typhoon-HIL.com)

EV SIMULATIONS

Typhoon Software is a Hardware In Line (HIL) system that is designed to support vehicular Inverter, Charger, & Converter development projects. This simulation software is an industry leader with, **Ultra High Fidelity, Faster Speed**, and is **More Versatile** - it will work with competitive products. Finally, it is probably more commercially competitive than any other product on the market today.