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LED Lighting
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AC/DC Power Supplies & DC/DC Converters

**Cosel** – produces AC/DC and DC/DC power supplies from 5W to 5000W in multiple form factors.

**Enedo Power (formerly Efore)** – offers the smallest form factor, high efficiency AC-DC power, LED drivers and power solutions.

**MEAN WELL** – provides the largest selection of standard AC/DC power supplies, LED drivers, DC/AC inverters & chargers, and surge protection products.

**MINMAX Technology Co., Ltd.** – produces a comprehensive line-up of DC/DC converters from 1W to 75W and AC/DC Power Modules from 2W to 60W.

**NetPower Technologies** – industry leader in brick style DC/DC converters with very high efficiency, high power density, isolated and non-isolated.

**Phihong** – provides AC/DC adapters (wall plug and desktop), POE-midspans, extenders and splitters.

**Power Partners, Inc.** – offers medical and ITE safety certified AC/DC power supplies.

**Protek Power** – develops medical and ITE safety certified AC/DC power supplies, open frame, and desktop.

**EMI/EMC Noise Filters**

**Cosel** – provides quality, effective and easy-to-use single phase, three phase and DC type EMI/EMC noise filters.

**Okaya** – offers electrical noise and surge suppression components.

**Cable Assemblies & Power Cords**

**LINVOX Corp.** – provides standard and custom power cords with worldwide safety certificates.

**Power Management ICs**

**Skyworks Solutions** – analog semiconductor products including battery chargers, DC/DC converters, voltage regulators and LED drivers.

**Thermal Management**

**Cooling Source** – standard and custom heat sink solutions, including the latest heat sink, heat pipe, fan, and interface material technologies.

**Bergquist** – supplies advanced thermal management materials.

**Mechatronics** – provides AC and DC axial fans, blowers, motorized impellers and value-added assemblies.

**YS Tech** – offers AC and DC axial fans, blowers and cross flow fans with long life bearing systems.

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**High-Performance Passive Components**

**Knowles Capacitors (Novacap)** – offers multilayer ceramic capacitor (MLC) products from 0402 surface mount capacitors to 10kV high-voltage units.

**Okaya** – provides electrical noise and surge suppression components.

**Knowles Capacitors (Syfer Technology Limited)** – offers application specific multilayer ceramic capacitors and EMI suppression filters.

**Magnetics**

**Precision** – produces standard and custom magnetic components and assemblies, including transformers, coils, chokes and inductors.

**Pulse Electronics** – makes innovative magnetics, antennas, and connectors for wireless and wireline communications.

**Renco Electronics** – supplies custom and standard transformers, inductors, chokes, coils, and subassemblies for many applications.

**Fuses**

**AEM Components** – provides surface mount protective and inductive electronic components for circuit protection and EMI signal filtering.

**Terminals & Connectors**

**Amphenol LTW** – develops waterproof interconnects from IP65 to IP69K for rugged & harsh environment applications including LED lighting & signage.

**Semiconductors**

**Electronic Devices (EDI)** – produces bridges, low and high voltage rectifiers, high voltage fast recovery diodes and high voltage assemblies.

**Indication**

**Okaya** – produces a wide range of standard and custom LCD modules and display technologies with highly accurate touch panel technology.

**SunLED** – develops extensive line of LED lamps, surface mount LEDs, and LED displays that are RoHS and REACH compliant.

**Visual Communications (VCC)** – supplies LED indicators, LED light pipes, neon indicators and incandescent indicators.
LED Lighting Solutions
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LED Light Sources
Citizen Electronics – produces COB LEDs for general lighting applications with superior brightness and efficacy and with excellent color control and reliability.

Crystal IS – an Asahi Kasei company, manufactures UVC LEDs that can be used in disinfection and instrumentation applications. The company's Klaran line of UVC LEDs emit ultraviolet light in the key germicidal wavelength range of 260nm to 275nm.

Audax Electronics – builds high-performance LED modules utilizing the latest SMD technologies; standard products are designed to work with LEDiL optics.

Lumileds – manufactures high-performance LEDs for general illumination applications, including CSP, COB, color, high-power, horticultural, IR, UV and mid-power packages.

Xicato – offers an ecosystem of intelligent LED modules for downlight and spotlight luminaires, integrating electronics, software and connectivity. Also offering programmable drivers featuring Bluetooth and wired control.

LED Drivers
MEAN WELL – manufactures more than 1000 high-quality LED driver models from 8W to 600W, complying with global lighting standards.

Enedo Power (formerly Efore) – delivers the widest range of constant current drivers and the smallest constant voltage drivers available in the industry.

LTi Technology – provides a wide variety of innovative LED Driver and Electronic Transformer solutions. Triac, ELV and 0-10V dimming options. CC or CV available with very small form factors. Modified standard and full customs drivers available.

MOSO – delivers high quality, cost effective outdoor LED lighting solutions. Fully programmable LED drivers are available from 75W to 320W.

LED Surge Protection
ABLE Power Products – offers patented designs for hard-wired in-line surge protection for LED lighting.

Design Resources
notWired.co - provides engineering services and expertise in hardware and firmware design. Primarily focus on RF & Microwave design, LED control systems, and embedded connectivity.

LED Optics
LEDiL – creates a wide range of top quality and cost effective standard and custom lenses and reflectors for a variety of LED lighting applications.

LensVector – produces liquid crystal controllable lenses in multiple sizes that enable the beam angle from a luminaire to be dynamically shaped from less than 10° to greater than 50°.

Gaggione – manufactures high-quality standard and custom LED optics including collimators, reflectors and Fresnel lenses.

Yongtek – offers complete diffuser solutions and many kinds of LED plastic sheets and LED fixture covers.

Thermal Management
MechaTronix – designs passive and active LED coolers, including round pin fin and star heat sinks with standard mounting holes for direct or holder mounting of COB LEDs and optics.

Furukawa Electric (Thermal Management Solutions) – develops heat dissipation products for very-high-power COB LED applications.

Celera – produces the most reliable thermal interface materials for LED lighting with a simple “peel-and-stick” design.

LED Connectors
Bender + Wirth – offers the most comprehensive line of high quality, pre-wired COB holders with optics mounting options.

BBJ – makes a variety of connectors for lighting applications, including COB LED holder systems.

Ideal Industries – provides innovative high-quality COB LED holders and LED optics adaptors.

Amphenol LTW – supplies waterproof interconnects from IP65 to IP69K for rugged and harsh environment applications including LED lighting and signage.

Lighting Sensors & Controls
EnOcean – provides self-powered (energy-harvesting) wireless switches and sensors for BLE-enabled LED lighting modules.

IR-TEC – builds sensor and control solutions for energy efficient lighting including occupancy, vacancy and daylight sensors.

Xicato – offers intelligent sensors with wireless nodes that transmit sensor data over the Xicato GalaXi™ Bluetooth network.

Sensors & Wireless Solutions
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All Sensors – a leading manufacturer of MEMS piezoresistive pressure sensors and pressure transducers.

EM Microelectronic – a semiconductor manufacturer specialized in the design and production of ultralow power, low voltage integrated circuits for battery-operated and field-powered applications in consumer, automotive and industrial areas.

Fanstel – offers powerful, highly flexible, ultra-low power Bluetooth low energy (BLE) modules using Nordic nRF52 SoCs.

Linx Technologies – manufactures wireless components including antennas, modules, remote controls and RF connectors.

notWired.co – is an engineering team with experience in complex embedded designs with expertise in hardware/PCB, embedded firmware, Bluetooth/BTLE, WiFi, mobile app development, and PC app development.


**Gaging / Metrology**

**Arnold Gauge** – provides the world’s finest custom in-process measurement solutions since 1918.


**CDI Data Collection Solutions** – offers a desktop data collection kiosk that is ideal for desktop data collection and interfaces with most any SPC capable gage (caliper, indicator, micrometer) in addition to Solartron Metrology’s Orbit® 3 Digital Gaging Network.

**Mahr** – provides a range of easy to use measuring and metrology tools that deliver reliable data. Mahr Federal products are used for professional measuring applications where length, form, and surface deviations are inspected on workpieces throughout the automotive, aerospace, and other scientific sectors.

**MicroRidge Systems, Inc.** – offers the ability to easily connect any combination of digital gages (calipers, micrometers, digital indicators, etc.) and multiple RS-232 devices to your PC.

**Mitutoyo America** – producer of micrometers since 1937 and now recognized as a world leader in metrology. Produces high-quality products including calipers, indicators and gages.

**Prolink Corporation** – offers automated data collection and quality analysis solutions for both small and large companies. Prolink provides inexpensive products that are easy to implement and maintain.

**Solartron Metrology** – designs digital gage probes, LVDT’s, optical linear encoders and associated instrumentation, as well as offers the Orbit® Digital Measuring Network.

**Starrett Company** – produces precision measuring tools such as, micrometers, calipers, rules, levels, electronic gages, dial indicators, gage blocks, granite surface plates and custom engineered products.

**Material Analysis**

**Phase II+** – manufactures machine tool accessories, material testing instrumentation, precision measuring tools, cutting tools and shop supplies.

**TDK InvenSense** – offers a wide range of 6-axis and 9-axis motion sensors as well as analog, PDM, and I²S MEMS microphones for the IoT, wearable, mobile, smart remote and tablet markets.

**TE Connectivity** – recently acquired Measurement Specialties (MEAS), one of the largest connectivity and sensor companies in the world. Offers flow, fluid property, force, humidity, photo optic, piezo film, position, pressure, scanning, temperature, vibration and ultrasonic sensors.

**Telaire/Amphenol** – offers low-cost infrared CO2 gas sensing technology addressing a wide variety of HVAC (commercial & residential), industrial, automotive, appliance, and medical applications.

**Thermometrics/Amphenol** – provides NTC and PTC thermistors and RTD’s, chips, beads, discs, rods, and probes with standard and custom assemblies. Temperature ranges from cryogenic to 450°C with resettable fuse PTC applications.
### Amplifiers & ICs

**KCB Solutions Inc.** – supplies RF and microwave surface mount components for high reliability/high-performance applications within the avionics, satellite and defense industry.

**Skyworks Solutions, Inc.** – designs innovative high-performance analog semiconductors. Skyworks supports automotive, broadband, wireless infrastructure, energy management, GPS, industrial, medical, military, wireless networking, smartphone and tablet applications. The company’s portfolio includes amplifiers, attenuators, circulators, demodulators, detectors, diodes, directional couplers, front-end modules, hybrids, infrastructure RF subsystems, lighting and display solutions, mixers, modulators, optocouplers, opto-isolators, phase shifters, PLLs/synthesizers/VCOs, power dividers/combiners, power management devices, receivers, and switches.

**Sumitomo Electric Device Innovations USA** – supplies microwave and millimeter wave RF devices for cellular, broadcast, satellite, point-to-point radio, general communications and radar applications. Provides leading-edge GaAs and GaN products such as low noise amplifiers, up converters, down converters, internally matched FET amplifiers (IMFET), amplifiers, and discrete transistors. A recognized leader in quality and reliability with a strong heritage in research and development.

### Connectors & Cables

**Carlisle Interconnect Technologies** – produces high-performance cable interconnect systems and manufactures high end RF/Microwave connectors. Develops and produces high-speed wireless communications, automated test equipment, microwave/RF transmission and more.

**Micro-Coax** – provides semi-rigid cable, hand-formable cable, flexible coax cable, spline dielectric coax cable and RF cable assemblies.

**RF Industries** – develops coaxial connectors, very low cost, SMA, SMB, BNC, TNC, N, UHF, Mini-UHF, FME, LMR, 7/16 DIN, adapter kits, and direct replacement for Amphenol connectors.

**Sensorview** – a leading developer and manufacturer of high-performance antennas and cables for mmWave, 5G and beyond-5G. The company delivers differentiated low loss solutions with its own material processing technology and unique design technology for mmWave antennas and cables.

### Oscillators & Timing

**Mercury United Electronics Inc.** – manufactures frequency control products that include crystals, oscillators, low EMI spread spectrum clock oscillators, (quick-turn) TCXO’s, VCTCXO’s, VCO’s, OCXO’s and monolithic crystal filters.

**MtronPTI** – provides crystal-based timing solutions such as TCXO and OCXO products for use in wireless or wireline communications equipment, computing, and networking equipment. Also provides high-performance custom and semi-custom filter applications for RF and microwave applications.

**TaiTien** – offers OCXO, TCXO, VCXO, crystal, and crystal oscillators. TaiTien frequency products support various fields including automotive, consumer electronics, information technology and telecommunications.

### Passives & Materials

**ARC Technologies** – designs and manufactures microwave absorbing materials for commercial and defense applications. While providing a complete range of standard absorber products, ARC Technologies also offers dielectric materials, composites, radomes, and radar absorbing structures (RAS).

**Knowles Capacitors (Dielectric Laboratories)** – offers application specific microwave and millimeter wave components serving customers in fiber optic, wireless, medical, transportation, semiconductor, avionics and military markets. Manufacturers high Q multi-layer capacitors (MLC) and single-layer capacitors (SLC), resonators, filters, broadband DC blocks, thin film components, and custom ceramic components.

**Pulse Electronics** – produces antenna solutions for WiFi, Bluetooth, GPS, Zigbee, and similar applications. They offer both internal and external antenna options and support a variety of vehicular-mount antenna products. Pulse also offers a variety of RF magnetic and inductor products.

**Tai-Saw Technology Co. Ltd.** – recognized as the leading SAW (surface acoustic wave) device supplier in Taiwan, as well as the key OEM/ODM supplier of SAW devices in the world.

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