



# PNW HALBAR-RTS

I N C O R P O R A T E D

## ACTIVE COMPONENTS



Partners from RF to Light

**RF/Microwave** - power, diodes, amplifiers, control products, communication processors, mixers, frequency conversion & generation, SDI & HDcctv devices.

**Optoelectronics** - modules, switches, drivers, lasers.

**Technology** - Si, GaAs, GaN InP, SiGe, HMIC.



**DC/DC** - Board mount - isolated & non-isolated, regulated & non-regulated modules; Rack-mount

**AC/DC** - Rack-mount - rectifiers/chargers, open-frame (12V, 24V, 28V)

**DC Power** - Rack-mount & Cabinet - power systems, battery charging & distribution - datacenter, wireless, industrial.

## PASSIVE COMPONENTS



**Bussmann** - Fuses/Resetttables. **PowerStor** - Super Capacitors. **PolySurg** - ESD Protection, MLV, TVS. **Coiltronics** - Std/Custom Inductors, & Transformers. **Magnum** - Terminal Blocks.



KOA SPEER ELECTRONICS, INC.

**Resistors** - current sense, power, precision, wirewound, networks; **Thermal Protection** - chip thermistors & sensors, Ferrite Beads; **Inductors** - chip, thin film.



**LED** - SMT & thru-hole, automotive, flash, lighting, displays; **Optical Sensors** (light, proximity, UV), **IR sensors & interrupters**, **Photo-coupler**, **IrDA**, **UV LED**.



**Capacitors** - Ceramic SMT & Leaded HV & High Temp, AC Safety, Planar, Tanceram, Cap Arrays, X2Y, Switchmode. **High-Freq Ceramic** - Multi & Single Layer Caps, RF Inductors, Chip - Antennas, Baluns, Filters, Couplers & Diplexers.



**Capacitors** - Electrolytic, Polymer, Hybrid, MLCC, Film, & Varistors (MOV).

## ELECTROMECHANICAL



**Switches & Sensors** - Limit & Rocker Switches, Push-Button, Sensors (Proximity/Speed/Angle), Energy Harvesting, Wireless switches, sensors, footswitches, controls, command devices, receiver/transmitter.



**Relays** - signal / power / high-freq / auto / SSR, Thermal Printers, **Touch Screens** - Resistive, Connectors, Wireless Modules.



**EMI Shielding**: Gaskets, Elastomers, Filters, Rings. **Flexible Circuits**: Single & Multi-Layer, Rigid-Flex, High Reliability, SMT Assembly, Value-Add.

**Photo-etched Parts**: Light gauge metal (> 0.0005"), precision etching, forming.



**BEI Sensors, Crydom, Gigavac, Kavlico, Klixon, BMS** - battery management. **Sensors** - Pressure, Temperature, Force, Speed, Level, Position. **Relays. Contactors. Breakers.**



**Encoders** - Optical, Touch, Hall- Effect, Mech; **Switches, Keypads, Joysticks, Push-Buttons, Vehicle controls/displays, Custom Assemblies**

## INTERCONNECT



Interconnect Precision-Machined Pins, Receptacles, IC sockets, Headers & Sockets, Spring-Loaded Contacts & Headers, Application Specific PCB Interconnects. Customized solutions.



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## AUTHORIZED DISTRIBUTORS



|                                                                                                  | CHEMI-CON | FARNER Coiltronics | FARNER Fuses | FCL COMPONENTS | GRAYHILL | JOHANSON TECHNOLOGY | JOHANSON DIELECTRICS | KOA | LITEON | MACOM | MILL-MAX | Omnicon POWER | TECH ETCH | Sensata Technologies | ZF |
|--------------------------------------------------------------------------------------------------|-----------|--------------------|--------------|----------------|----------|---------------------|----------------------|-----|--------|-------|----------|---------------|-----------|----------------------|----|
| <b>Arrow</b><br><a href="http://arrow.com">arrow.com</a>                                         | ●         | ●                  | ●            | ●              | ●        | ●                   | ●                    | ●   | ●      | ●     | ●        | ●             | ●         | ●                    | ●  |
| <b>AVNET</b><br><a href="http://avnet.com">avnet.com</a>                                         |           | ●                  | ●            |                | ●        |                     |                      | ●   |        |       |          | ●             |           |                      |    |
| <b>Bisco</b><br><a href="http://biscoind.com">biscoind.com</a>                                   |           |                    |              |                |          |                     |                      |     |        |       | ●        |               |           |                      |    |
| <b>Digi-Key</b><br><a href="http://digikey.com">digikey.com</a>                                  | ●         | ●                  | ●            | ●              | ●        | ●                   | ●                    | ●   | ●      | ●     | ●        | ●             | ●         | ●                    | ●  |
| <b>ElectroSonic</b><br><a href="http://e-sonic.com">e-sonic.com</a>                              | ●         | ●                  | ●            |                |          |                     |                      |     |        |       |          |               |           |                      |    |
| <b>Future/ FAI</b><br><a href="http://futureelectronics.com">futureelectronics.com</a>           | ●         | ●                  | ●            |                | ●        |                     |                      | ●   |        |       | ●        |               |           |                      | ●  |
| <b>Fuses Unlimited</b><br><a href="http://fusesunlimited.com">fusesunlimited.com</a>             |           |                    | ●            |                |          |                     |                      |     |        |       |          |               |           |                      |    |
| <b>Heilind Electronics</b><br><a href="http://heilind.com">heilind.com</a>                       |           |                    | ●            | ●              |          |                     |                      |     |        |       | ●        |               | ●         | ●                    |    |
| <b>Master Distributors</b><br><a href="http://masterdistributors.com">masterdistributors.com</a> | ●         | ●                  | ●            | ●              | ●        |                     |                      |     |        |       |          |               |           | ●                    | ●  |
| <b>Mouser</b><br><a href="http://mouser.com">mouser.com</a>                                      | ●         | ●                  | ●            | ●              | ●        | ●                   | ●                    | ●   | ●      | ●     | ●        | ●             |           | ●                    | ●  |
| <b>Newark Element14</b><br><a href="http://newark.com">newark.com</a>                            | ●         | ●                  | ●            |                | ●        |                     |                      | ●   |        |       | ●        |               |           |                      | ●  |
| <b>DB Roberts</b><br><a href="http://dbroberts.com">dbroberts.com</a>                            |           |                    |              |                |          |                     |                      |     |        |       |          |               | ●         |                      |    |
| <b>Richardson - RFPD</b><br><a href="http://rell.com">rell.com</a>                               | ●         | ●                  | ●            |                |          |                     |                      |     |        | ●     |          |               |           |                      |    |
| <b>RFMW</b><br><a href="http://rfmw.com">rfmw.com</a>                                            |           |                    |              |                |          | ●                   |                      |     |        | ●     |          |               |           |                      |    |
| <b>RS</b><br><a href="http://us-rs-online.com">us-rs-online.com</a>                              |           | ●                  | ●            |                | ●        |                     |                      |     |        |       | ●        |               |           | ●                    | ●  |
| <b>Sager</b><br><a href="http://sager.com">sager.com</a>                                         |           | ●                  | ●            | ●              | ●        |                     |                      |     |        |       | ●        | ●             |           | ●                    |    |
| <b>TTI</b><br><a href="http://ttiinc.com">ttiinc.com</a>                                         | ●         | ●                  | ●            | ●              |          |                     |                      | ●   |        |       |          |               |           | ●                    |    |
| <b>Utech</b><br><a href="http://utech.com">utech.com</a>                                         |           |                    |              |                |          | ●                   |                      |     |        |       |          |               |           |                      |    |
| <b>Wesgarde</b><br><a href="http://wesgarde.com">wesgarde.com</a>                                |           |                    |              |                |          |                     |                      |     |        |       |          |               |           |                      | ●  |