



ACTIVE COMPONENTS

MACOM

macom.com

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

Optoelectronics - modules, switches, drivers, lasers. **Hi-Rel** - diodes, transistors, regulators. **Technology** - Si, GaAs, GaN InP, SiGe, HMIC.

PHIHONG

phihong.com

AC adaptors & chargers, open frame & network power supplies, PoE midspans/splitters/supplies, LED drivers, OEM power solutions

POWEREX

pwr.com

Modules - IGBT, IPM, SIC, MOSFET & Diode; Rectifier/Thyristors, SCRs, Bridges, Power Assemblies

PASSIVE COMPONENTS

EATON BUSSMANN

cooperindustries.com

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

KOA

koaspeer.com

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

LITE-ON

us.liteon.com

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

JOHANSON

johansondielectrics.com
johansontechnology.com

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.

UNITED CHEMI-CON

chemi-con.com

Capacitors: Electrolytic, Polymer, Hybrd, MLCC, Film, & Varistors (MOV)

ELECTROMECHANICAL

ZF ELECTRONICS/STEUTE

switches-sensors.zf.com

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

DONTECH

dontechnic.com

Display & Optical Filters, Optical bonding, Coatings (Anireflection & antiglare), Heaters, & EMI/RFI

EMERGING DISPLAY
TECHNOLOGIES

edtc.com

Displays - TFT, CSTN, STN (Graphic & Char.), Cap Touch, Integrated and custom display solutions.

FUJITSU

fujitsu.com

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

TECH-ETCH

tech-etch.com

EMI Shielding: Gaskets, Elastomers, Filters, Rings

Flexible Circuits: Single & Multi-Layer, High Reliability, SMT Assembly, Value-Add

Photoetched Parts: Light gauge metal (> 0.0005"), precision etching, forming

THERMODISC

thermodisc.com fusite.com

Standard & Custom Bimetal Thermostats, Thermal Switches, Thermal Fuses, Sensors - power, humidity, wireless. **Fusite** - Glass-to-metal sealing - feedthroughs, connectors, hermetic pkg.

INTERCONNECT

WEIDMULLER

weidmuller.com

Interconnect: Terminal Blocks, Heavy Duty, Power Bus, Ind. Ethernet, Sensor/Actuator Interface, Marshalling Cable Solutions, OMNIMATE - Signal, Power, Housings. **DIN Modules:** power supplies, UPS systems, Industrial Ethernet, Relays, PLC, surge protection, **Enclosures:** Stainless & Mild Steel, Plastic, Aluminum & accessories. **Customize Solitions/Assemblies. Tools. Marking Systems:** printer, software, markers.

CONNECT-AIR

connect-air.com

Custom overmolded cables, Data Cables, Electrical/Electronic cables

CINCH CONNECTIVITY
SOLUTIONS

cinch.com

Johnson - RF Connectors, Cable Assemblies, Electronic Hardware. **Midwest Microwave** - High Freq Connectors, Cable Assemblies. **Trompeter** - Coax, Twinax, Triax Connectors & Cable Assemblies; Patch Panels; Broadcast. **Stratos** - Digital Video Transport, Optical Connectivity, Optical Transceivers **AIM** - Coax & datacom interconnect, AV/TV/LAN cables

MILL-MAX MFG. CORP

mill-max.com

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



HALBAR RTS

Sales and Engineering
Representatives

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

Factory Authorized Distributors

| | ZF Elec. | Eaton Fuses | Eaton Coiltronics | Cinch/MIL | Cinch/Coax | EDT | Fujitsu | KOA | Macom | Mill-Max | Phihong | Powerex | UCC | Johanson | Lite-On | Weidmuller |
|--------------------------------------------------------------------------------------------------|----------|-------------|-------------------|-----------|------------|-----|---------|-----|-------|----------|---------|---------|-----|----------|---------|------------|
| AeroFlite aerofliteinc.com | | | | ● | | | | | | | | | | | | |
| A.E.Petsche Co. www.aepetsche.com | | | | ● | | | | | | | | | | | | |
| Allied Electronics alliedelec.com | ● | ● | | | ● | | | | | ● | ● | | | | | |
| Arrow arrow.com | ● | ● | ● | ● | | | ● | ● | | ● | | | ● | ● | ● | |
| Avnet avnet.com | | ● | ● | | ● | | | | | | | | | | ● | ● |
| Avnet USI * avnetusi.com | | | | | | | | | ● | | | | | | | |
| Bisco Industries biscoind.com | | | | | | | | | | ● | | | | | | |
| Digi-Key digkey.com | ● | ● | ● | ● | ● | | | | ● | ● | ● | ● | | ● | ● | ● |
| ElectroSonic e-sonic.com | | ● | | | ● | | | | | | | | ● | | | |
| Future / FAI futureelectronics.com | ● | ● | ● | | | | | | | ● | | | ● | | ● | |
| Fuses Unlimited fusesunlimited.com | | ● | | | | | | | | | | | | | | |
| Heilind Electronics heilind.com | | ● | | | ● | | ● | | | ● | | | | | | ● |
| Jaco Electronics jacoelectronics.com | | | | | | ● | | | | | | | | | | |
| Master Distributors masterdistributors.com | ● | ● | | | ● | | ● | | | | | | ● | | | ● |
| Micross (DIE) ** www.micross.com | | | | | | | | | ● | | | | | | | |
| Mouser mouser.com | ● | ● | ● | | ● | | ● | ● | ● | ● | ● | | ● | ● | ● | |
| Newark element14 newark.com | ● | ● | ● | ● | ● | | | | | ● | | ● | ● | | ● | ● |
| PEI-Genesis www.peigenesis.com | | | | ● | | | | | | | | | | | | |
| Richardson - RFPD rell.com | | | | | ● | | | | ● | | | ● | ● | | | |
| Sager sager.com | ● | ● | ● | | | | | | | ● | | | ● | | | |
| Simcona simcona.com | | | | | | ● | | | | | | | | | | |
| TTI* ttiinc.com | | ● | ● | | | | | ● | ● | | | | ● | | | |
| Utech utech.ca | | | | | | ● | | | | | ● | | | ● | | |
| Walker walkercomponent.com | | ● | | | | ● | | | | | ● | | | ● | | ● |
| Wesgarde wesgarde.com | ● | | | | | | | | | | | | | | | ● |
| WPG-Americas wpgamericas.com | | | | | | ● | | | | | | | | | | |

*Macom Hi-Rel only

** DIE Only