



Alliance Group

N o r t h w e s t I n c .

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Effective Date: 11/202

AddA USA Corp

www.addausa.com

Thermal Mgmt Devices



- Complete line of AC & DC Cooling Fans & Blowers
- Fans for High Airflow, High Back Pressure & Waterproof Applications
- Passive & fan Chip Coolers
- Options: Motor Protection, Speed Sensors, PWM Control, Finger Guards

Challenge Electronics

www.challengeelectronics.com

Audible Products



- Battery Holders
- Magnetic and Piezo Buzzers & Transducers
- Panel Mount Piezoelectric Alarms
- Wide range of Speaker, Headsets; MEMS & Condenser Microphones

E-Switch

www.e-switch.com

Switches



- PCB Switches include Rocker, Toggle, Push Button, DIP, Tact, Nav., Slide, & Tilt
- Panel Mount Switch offering of Rotary, Rocker, Push Button, Toggle, Keylock & Anti-Vandal
- Standard, Miniature and Subminiature Snap Action Switches
- Sealed, Lighted and Customization Options available for many series

Fujipoly

www.fujipoly.com

Thermal Interface Materials



- Silicone-Based Electronic Packaging Solutions
- Advanced Thermal Interface Materials
- Reliable Elastomeric Connectors
- Custom Rubber Extrusions for ESD, EMI & RFI, Gaskets and Shielding

Kycon

www.kycon.com

Connectors



- D-Sub, Mod-Jack, HDMI, USB, Mini-Din, Audio and DC Power Jacks
- Full Line of I/O Connectors and Molded Cable Assemblies
- Mod Jacks: IP67, with or w/o Shielding, LED or Magnetics
- Mounting Options: Thru-Hole, SMT, Vertical, Right Angle, Upright & Mid-Mount

Melexis

www.melexis.com

Wireless ICs & Sensors



- **Hall Sensors:** Switches, Latches, Linear, 3D Position, Rotary Position & Current Sensing
- **Optical Sensors:** Single Sensor and Thermal Array Infrared Thermometers, Gesture Sensing and QVGA TOF Sensor
- **Wireless:** ISM Band Transmitters, Receivers and Transceivers, RFID/NFC Transceiver, RFID Sensor Tag, Low Frequency Zone detection “Dead Man’s Switch”
- **Pressure Sensors:** Relative and Absolute Pressure Sensors
- **LIN Bus RGB LED Controller, LIN SBC’s and Bus Transceivers**

Casio/Ortustech

www.macnica.com/americas/products/displays/ortustech

Color TFT Displays



- **Advanced Design for Compactness, Reliability, & Very Low Power Consumption**
- **Breakthrough “Blanview” Technology offers Sunlight Readable Display, Long battery life, Low heat Generating, & Exceptional Image Quality**
- **QVGA, WVGA, and HD Displays from 2.2” to 7”**
- **Touch Panels available with some models, Resistive and Capacitive, (PCAP)**
- **Operating temps –30C to +85C, several Wide temp models –40C to +95C**

Orbel

www.orbel.com

EMI/ RFI



- **EMI/RFI Shielding, Board Level Shielding**
- **Finger Stock Gaskets, Metalized Fabric Gaskets, Precision Metal Stamping**
- **Photo-Etched Precision Metal Parts, Electroplated Metal Foils**
- **Reel to Reel Plating, Battery Tabs, Contacts & Contact Rings, Circuit Board Stiffeners & Busbars**

Torex

www.torexsemi.com

Analog Power Supply ICs



- **World’s smallest Micro DC/DC converter Offering Built-In Inductor, Step-Up, Step-Down, Step-Up/Down, Multi Channel models**
- **Voltage Regulators ranging from Low consumption devices to high-speed. Single/dual output channel and voltage detect models**
- **Voltage Detectors Reset ICs to monitor power supply lines and CLK’s. Single/ Dual Type, Built-in, Adjustable Delay Time or Watchdog function**
- **Wide variety of related IC’s and power discretes**