






OBSOLESCENCE SOLUTIONS

Manufacturers	Products	Applications
 <p>micross one source. one solution.™</p>	<p>Counterfeit Mitigation Services: IC Counterfeit Detection Testing Component Modification: Robotic Hot Solder Dip - Compliance with RoHS directive lead-free Solder Alloy, grid failure <1% Elimination of Tin-Whiskers through tin-lead-alloy Component Obsolescence Challenges, Non-availability of tin-lead components Life-time buy opportunity (Long Term Packaging) BGA Reballing for the Conversion of tin-lead, Component Harvesting Lead Reconditioning, Lead Attach Coplanarity and Compression Bond Forming and Cutting of Pins Gold Mitigation, column grid array (CGA) interconnect technology Packaging & Assembly, Electrical & Environment Testing</p>	<p>Aerospace & Defense, Space, Industrial Applications, Implantable Medical Industry, Transportation</p>
 <p>WINSLOW ADAPTICS</p>	<p>Design & manufacture for the electronic system lifecycle Custom solutions for mitigating Device Obsolescence and Board Re-Design Adapter Products, Interconnect Pitch Adapters, Programming Adapters, Allocation & Obsolescence ASIC / FPGA Adapters to include code reconstruction and re-targeting; Package/ 1:1 Footprint Conversion, Device Re-targeting, Connectors; Reverse Engineering of Small Plastic & Metal Parts; Atmel AVR Adapters for Micro Controllers Test & Development Production & Test Sockets, Prototyping Adapters/Interposers, Emulation & Test Interface, Programming Adapters, Voltage Regulation, Test Clips & Modules, Custom Development Interconnect Screw Machine/ Turn Pin Sockets, Dual Row Component Header, PCB Connectors, Single Row High Profile IC Sockets, Stamped Pin IC Sockets , Wire Wrap Jermyn Semiconductor Hardware Mounting Pads, Transistor & Circular IC Sockets, Opto/Diode Display Sockets, Insulators, Panel Washers, Bushes and Covers, Component Carriers, Heatsinks, Precision Engineering Reverse Engineering Solutions; Injection Moulding , CNC Machining, Toolmaking</p>	<p>Adapter Solutions, Aviation, Defense, Space, Automotive, Medical Industry, Industrial Applications, Railway, Package Conversions</p>

 <p>Xsis</p>	<p>High Reliability Hybrid Microcircuit Crystal Oscillators & Crystal Units Crystal Oscillators: Standard, Military, MIL-PRF-55310, MIL-PRF-38534, MIL-883B Technology; TTL-LVTTL-CMOS-HC/ACMOS-ECL; Lowest voltage is 1.8V, SMD-Packag- es 5x7mm; Crystal Units: QPL Crystal Units, Custom Crystal Units; Obsolete Through Hole packages, Custom Solutions; High Temperatures up to +230°C High Shock & Vibration Designs, Up-Screening Program</p>	<p>Defense, Space, Aircraft, Hi-Rel Applications, Industrial Products, Telecommunications, High Temp. Products</p>
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DISPLAYS & CONTROL ELEMENTS

Manufacturers	Products	Applications
 <p>EverSwitch</p>	<p>Touch Metal Piezo Switches & Keypads, Non-Touch Infrared Metal Switches Piezo Electric Pushbutton Switches: Ring-, Point- and Non-illuminated from 16mm to 28mm diameters. Piezo Electric Keypads, Access Control Stand Alone, Access Control Keypads with communication protocol, Access Control Keypad Readers, Industrial Solutions and Custom Designs, all products are in Aluminum or Stainless Steel with an operation temperature from -40 to +125°C and IP68/69K protection Tested for 50,000,000 cycles including vibration and impact tests, Non-Touch Infrared Metal Switches with detection range 5 to 80cm Piezo Technology Pushbuttons work reliably under a glass thickness of 3 mm</p>	<p>Access Control Panels, Fuel dispensing e-Car Charging, Underwater, Submarines, Oil and Gas, Parking Systems, Rail Traffic & Public Transport, Emergency Switches</p>
 <p>SUNLIKE DISPLAY TECH. CORP.</p>	<p>Character Displays of 8x1, 10x4, 16x1, 16x4, 20x2, 20x4, 24x2, 40x2, 40x4, 68x4 Graphic LCDs (TN/ STN/ FSTN/ DFSTN) Displays with or w/o backlight, COG Displays, TFT-, LCD-Modules, HMI Modules, UART TFT Displays, Touch Panels, OLED Character & Graphic Displays, OLED Modules, OLED Switches</p>	<p>Industrial Measuring Instruments, Control Devices</p>

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OUR SERVICES

KAMAKA - ESTABLISHED IN 1992 AUTHORIZED DISTRIBUTOR & SOLUTION PROVIDER

- ▶ Strategic Obsolescence Management
- ▶ Anti-Counterfeiting Program
- ▶ Life Cycle Management
- ▶ Long Lifetime Program up to 25 years
- ▶ Last Time Buy, EOL-, PCN-Service
- ▶ Requirement Engineering
- ▶ Custom Multi Chip Modules
- ▶ Supplier Risk Management
- ▶ Worldwide Access to Allocation & Obsolete Products
- ▶ Hi-Rel: Screening & Procedure Service
- ▶ Qualified Visual & Electrical Test Reports
- ▶ Monitoring of Critical Components
- ▶ Quality Inspection
- ▶ Qualified Visual & Electrical Test Reports
- ▶ Traceability is guaranteed
- ▶ AQL Spot Checks according to DIN/ISO 2859-1
- ▶ Total Quality Management:
DIN EN 9120:2018 (technically equivalent to AS 9120B and SJAC 9120A); DIN EN ISO 9001:2015; DIN EN 61340-5-1: ESD compliant storage & handling process
- ▶ ITAR Free Products available

MEMBERSHIPS



ZERTIFIKAT

◆ CERTIFICATE

◆ CERTIFICADO

◆ CERTIFIKAT

◆ 認證證書

◆ CERTIFICATE

◆ CERTIFICATE



CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that



KAMAKA Electronic
Bauelemente Vertriebs GmbH
Ulmer Straße 130
73431 Aalen
Germany

with the certification structure **Single site**
has established and applies
a Quality Management System for

**Sales of applications, electronic units,
components, modules and systems.**

An audit was performed in compliance with EN 9104-001:2013,
Order No. **707009632**.
Proof has been furnished that the requirements according to
EN 9120:2018
technically equivalent to AS 9120B and SJAC 9120A
for Aviation, Space and Defence organizations are fulfilled.
Include the standard ISO 9001:2015 Quality Management System.
Issue date: **2020-03-03**
Expiry date: **2023-03-02**
Certificate Registration No.: **12 212 47498 TMS**.





TÜV SÜD Management Service GmbH • Zertifizierungsstelle • Rüdigerstrasse 57 • 80339 München • Germany
www.tuev-sued.de/certificate-validity-check

BJZ

Zertifikat / Certificate

über die Einhaltung der Norm:
DIN EN 61340-5-1:2017-07

Kamaka Electronic Bauelemente Vertriebs GmbH
Ulmer Straße 130
D-73431 Aalen

Tag der Messung: 14.06.2021
Gültig bis: 13.06.2022

Messobjekt:
EPA – Bereich (Lagerraum 1 / Lageraum 2)

Messmittel:
Safe-STAT Teraohm-Meter RM 4000 (Ser. Nr.: 1805109, Kalibrierdatum: 05/2021)
Walking Test EVO (Ser. Nr.: 271184, Kalibrierdatum: 04/2021)
sowie zwei 2,5 kg Elektroden

Messmethoden:

ESD – Boden:	Ableitwiderstand
ESD – Tischmatten:	Oberflächen- und Ableitwiderstand
ESD – Regalsystem:	Ableitwiderstand
ESD – Stühle:	Systemwiderstand

**Hiermit wird festgestellt, dass die überprüften ESD-Kontrollelemente der Bereiche
Lageraum 1 & 2 der oben genannten Norm entsprechen.**

Farnbach, 16.06.2021
ppa. Michael Zwicknagl
ESDA-certified program manager
BJZ GmbH & Co. KG




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