



KAMAKA
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Industrial Solutions

Manufacturers	Products
	Frequency Control Products, SMD Quartz Crystals, SMD Crystal Oscillators VCXOs, Low EMI Oscillators, Ceramic Resonators, 2 Differential Output Oscillators Automotive Crystals & Oscillators, HCMOS, LVPECL, LVDS, HCSL Outputs Applications: Industrial, Meters Energy, Bluetooth, Wireless LAN, Telecomm
	Power Inductors, RF Inductors, RF Coils, Chokes, Transformers, Custom Products New Harowe® Resolver Products: Housed & Frameless Brushless, Heavy Duty Quality Standards set by the accreditation of their MIL-PRF-39010, "R" failure rate Applications: Hi-Rel, Medical, Down Hole, Railway, Industrial, Motor Commutation
	Robotic Hot Solder Dip – Compliance with RoHS directive Elimination of Tin-Whiskers through tin-lead-alloy, Lead Attach Coplanarity and Compression Bond, Leadfree, Gold Mitigation, Forming and Cutting of Pins BGA Reballing for the Conversion of tin-lead
	Highly Efficient Dual Regulated Output Ambient Energy Manager Ultra-Low-Power-Start-up; Ultra-Low-Power Boost Regulator Integrated LDO Regulator at low voltage 1,8V and high voltage 4.2V; Flexible Energy Storage Management; Input Voltage 380mV; Input Power 11µW Smallest Footprint; package QFN-24-pin; Smallest external BOM
	Development and production of custom and mobile portable power systems Aerospace / UAV: Rechargeable batteries: High energy density (up to 240Wh/Kg) Medical & Industrial products: standard & custom Li-Ion rechargeable batteries Micro-grid energy storage systems. Applications: Battery Power Systems
	Electromechanical Relays: range from 1A to 80A & AC or DC Coils, SPDT PC-DIP, SPDT, DPDT, Subminiature DPDT, Low Profile SPDT/DPDT, Automotive Relays, SPDT 10Amp, 20Amp /DPDT 10Amp HAT, KLT, SPR Latching Relays, Reed Switches, Mini Reed Relays, Small Dry Reed Relays, Proximity Switches, OKI Reeds, Latching Relays. Applications: circuits with long lifetime and high reliability
	Power Semiconductor Products: Diodes, Thyristors, Modular Blocks, Heat Sinks, Isolated Modules, Crossed-Field Amplifiers, Absorbers. Approvals: ISO9001:2008, AQAP 2110:2009. Applications: New Energy, Inverters, High Power Switching Units, High Power Rectifiers, Commercial Applications
	Super-Capacitors up to 2.8V, wide Temp. range -40 to +65°C; -25 to +70°C Green Caps (EDLC): 3F to 3000F, 2.5V to 2.7V, very low ESR Hybrid Capacitors: 250F to 7500F, 2.8V, Low ESR, No explosion, Long cycle life Applications: Hybrid Vehicles, Renewable Energy System PV, Wind, UPS High Power Performance vs. Battery, Maintenance-free, Environmental
	Mission critical Thin & Thick Film Chip Resistors, Precision Chip Resistors, High Frequency Products, Silicon Resistors, Chip Attenuators, Current Sense Resistors, High Power Chip Resistors, Power Moisture & Zero Ohm Chip Resistors Applications: High Quality Industrial, Medical, Hybrids, Special Applications
	Character Displays & Graphic LCD Displays, TN, STN, FSTN, COB, TAB TFT LCD Modules HDMI/VGA driver Board, UART Interface OLED Character & Graphic Displays, OLED Modules. OLED Switch Applications: Industrial Measuring Instruments, Control Devices
	Professional Triple Redundant Autopilots ^{mp} , MicroPilot Autopilots Fly Multi-Rotors LRC with Radio Modem, LRC Base (Ground), LRC Airborne Unit, True HWIL Board & Enclosed Autopilots, Simulation for the UAV, Horizon Ground Control UAV Applications: UAV - Fixed Wings, Helicopter, Airborne
	Adapter Products, 1:1 Footprint conversion, ASIC/ FPGA Adapters to include code reconstruction and re-targeting, Interconnect Pitch Adapters, Programming Adapter Functionality Upgrade, Production & Test Sockets, Atmel AVR Adapters, Reverse Engineering of Small Plastic & Metal Parts Applications: Adapter Solutions, Device Specific Package Conversion

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Power Management

Manufacturers	Products
	AC/DC Power Supplies New Generation Series JETA with EMC Filter 60 to 5000W Input: 3-phase 400VAC, 230VAC, 115VAC; Output: 5 to 60; 12 to 60; 24 to 60VDC Temp. Range -50°C to +85°C; PFC up to 93% DC/DC-Converters Series JETD with EMC Filter 25 to 800W Input: 12, 24, 27, 48VDC; Output: 3 to 60; 5 to 60; 9 to 60VDC Temp. Range -60°C to +125°C; Efficiency up to 93% Applications: Industrial, Server, COTS Military, Airborne
	Isolated single, dual and triple output DC/DC Converters from 0.25 to 2100 W Module & Open Frame Converters, SMT&THT, Brick Assembly Modules (CBAM™) Commercial-off-the-shelf (COTS) Converters, 5 year warranty Applications: Industrial, Medical, Avionics, Defense, Marine
	Single and dual output DC/DC Converters from 1 to 50W, 2 year warranty Industry Standard Footprints SIP, DIP, SMT, 1x1 and 1x2 thru hole patterns, Switch mode AC/DC Supplies; encapsulated PCB mount from 4 to 60 W Applications: Commercial, Industrial, Medical, Railway
	Highest Energy and Power Density Capacitors with MTBF>5.000.000 hours Product range 68 µF to 240.000µF (10V to 125V) 85°C, 125°C and 200°C. Very low ESR, very high current handling capability, Highest levels of quality Applications: Power hold up Avionics, Laser Pulse Power, Phased Array Radar Pulse Power, Replacement of Standard Capacitors & Batteries, Oil & Gas +200°C
	AC/DC Power Supply Chargers up to 1200W Electric Vehicle DC/DC Converters up to 450W AC/DC Power LED Drivers from 18 to 150W, constant voltage, dimmable Applications: Electric Vehicles, E-Bikes, LED Lightning, 5 year warranty
	Hermetic Ultra-Capacitor Technology D & AA size cells, 33F to 370F capacitance Extreme temperature operation -40 up to +300°C, Custom Modules Vibration & 500g Shock Resistance, Lithium Free – no risk of explosions High Cycle Life, 20+ year shelf life, weldable terminals for parallel or series connect Applications: Hi-Rel Avionics, High Temperature Products for Oil & Gas
	Super Cap UPS System Products - Battery is not used - maintenance-free design Back-up Power Supply version with DC input & DC output or AC input & AC output Long life time, wide operating temperature range, long output & high reliability Main features for Outdoor Environment Applications: UPS- & Back-up System
	Isolated Brick DC/DC-Converters 15 to 800W , Efficiency up to 95% Rugged COTS DC/DC Converters up to 800W, Input Voltage range 8:1, 4:1, 2:1 Over-voltage, over-current, short-circuit and over temperature protection Hybrid EV on-board DC/DC-Converters with CAN 2.0 up to 3.6kW Peak Power Applications: Commercial, Industrial, Electric Vehicle, Rugged COTS
	DC/DC-Converters Isolated and Non-Isolated Point-of Load DC/DC-Converters 15 to 100W 24-Pin DIP DC/DC-Converters up to 15W; 1"x1" DC/DC-Converters up to 40W DOSA-Compatible Brick DC/DC-Converters 14 to 600W Applications: Industrial, Medical, Scientific, Hi-Rel Military, Airborne, Aerospace
	Design and Manufacturing RD Center for standard and customized Converters Encapsulated, Brick DC/DC Converters from 5W to 960W, Input 12:1/ 8:1/ 4:1/ 2:1 Open Frame Single & Dual DC/DC Converters up to 50W Applications: High End Industry, Automation, Transportation, Railway
	Isolated DC/DC Converters 1,5W to 150W, 700 kinds of standardized Converters constant current, constant voltage DC/DC Converters up 600W AC/DC Converters from 5W to 200W, Electric Vehicle Chargers Applications: Commercial, Industrial, Datacom, Electric Vehicles

KAMAKA Service

KAMAKA was established in 1992

Anti- Counterfeiting Program
 Life Cycle Management
 Project Management
 Requirements Engineering
 Supplier Management
 Traceability is guaranteed

Total Quality Management: DIN EN 9120:2009 technically equivalent to AS9120A and SJAC9120
 DIN EN ISO 9001:2008, DIN EN 61340-5-1 ESD compliant storage & handling process

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