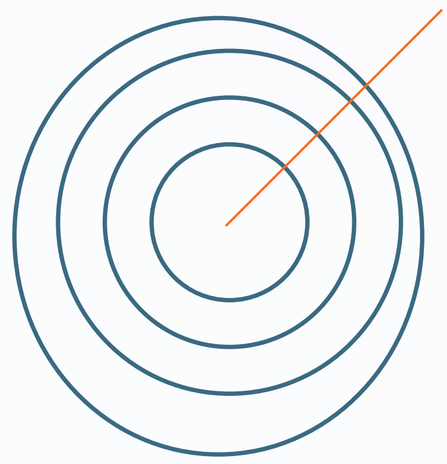
MHz Technologies

Technology expertise, connected

A specialist partner for RF, microwave and millimetre-wave technologies.

MHz Technologies is a manufacturer's representative, distributor and technical sales consultancy focused on specialist RF, microwave and millimetre-wave technologies. The portfolio connects customers with manufacturers of components, subsystems and timing solutions for demanding electronic systems.



RF / MICROWAVE
MILLIMETRE WAVE

HOW WE SUPPORT CUSTOMERS

MANUFACTURER NETWORK

Represent

Connect customers with specialist manufacturers and their technical expertise.

DISTRIBUTION

Supply

Support access to selected RF, microwave, timing and interconnect products.

TECHNICAL SALES

Advise

Help identify relevant product families against the application and specification.

MARKETS & APPLICATIONS

Defence & security

Radar, electronic warfare, secure radio and timing.

Aerospace & SATCOM

Airborne links, satellite communications and synchronisation.

Telecommunications

Wireless infrastructure, filtering and RF signal chains.

Test & measurement

Reference clocks, oscillators, analysers and test interfaces.

Medical & scientific

Imaging systems, low-noise references and specialist RF assemblies. High Power SSPAs for Medical Ablation

Industrial & research

Microwave generation, laboratory systems and high-frequency electronics.

Technology portfolio

A practical overview of the product families represented across the partner network.

01

Frequency & timing

Rubidium frequency standards, GNSS-disciplined time and frequency systems, NTP/PTP time servers, OCXOs and reference clocks.

02

RF & microwave conversion

Block up/down-converters, microwave source modules, frequency multipliers, mixers and conversion subsystems.

03

Amplification

Low-noise amplifiers, gain blocks, IF and medium-power amplifiers, linear SSPAs and GaN high-power amplifiers.

04

Oscillators & sources

XO, VCXO, TCXO and OCXO families, ultra-low phase-noise oscillators, Gunn diodes and signal sources.

05

Filters & passive networks

06

Interconnects & assemblies

PanProser® elastomeric interconnects, test sockets, wafer-test interfaces, integrated assemblies and RF subsystems.

PRODUCTS BUILT AROUND THE APPLICATION

From frequency references and RF front-end components to microwave subsystems and high-speed interconnects, selection starts with the application, operating range, performance targets and integration requirements.

Technical examples & published specifications

Selected examples checked against current manufacturer product pages; confirm configuration and availability before quoting.

AccuBeat AR51-07

GPS-disciplined rubidium time/frequency unit

Published when GPS-disciplined: time accuracy <20 ns RMS; frequency accuracy better than 2×10^{-12}.

Kuhne KU PA BB 005250-2 A

RF broadband power amplifier

Published range: 50–2,500 MHz; typical 2 W P1dB output; typical 33 dB small-signal gain.

ASB AGN1440DC

GaN Ku-band high-power amplifier

Published bandwidth: 13.0–16.5 GHz; saturated CW output 41 dBm (12 W); power gain 13.5 dB.

KVG O-22-ELPN-VHF

100 MHz OCXO

Published phase noise: −140 dBc/Hz at 100 Hz offset; −190 dBc/Hz at 100 kHz offset.

Satellite communications: Ka-band BUC 27.5–31 GHz; Ku-band BUC 13.75–14.5 GHz; another BUC range 12.75–13.25 GHz.
Frequency source: XMU ultra-low phase-noise oscillator family was shown as 200 MHz–12 GHz.
Important: these ranges come from the supplied original brochure and are retained as historical references, not confirmation of current stock or availability.

Our technology partners

Nine specialist manufacturers spanning timing, RF components, passives, filtering, MMICs and interconnects.

AccuBeat

Frequency standards, atomic clocks and timing systems.

Alaris Kuhne

RF/microwave amplifiers, converters, sources and multipliers.

ASB Inc.

RF amplifier MMICs, LNAs, gain blocks and GaN HPAs.

IMS Resistors

Resistors, attenuators, splitters, couplers and thermal devices.

KVG Quartz Crystal Technology

Crystals, filters, XO/VCXO/TCXO/OCXO oscillators.

Linwave Technology

RF/microwave components, modules, subsystems and test.

MMIC-Lab

GaN HEMTs and GaAs/GaN MMICs for RF systems.

Netcom Inc.

Tunable filters, LC filters, RF amplifiers and assemblies.

Paricon

PariPoser® interconnect fabric, sockets and test interfaces.

Frequency, timing & crystal technology

Precision references support synchronisation, measurement, communications and demanding electronic systems.

AccuBeat

RUBIDIUM TIMING & PNT

AccuBeat develops high-accuracy frequency and timing products built around rubidium atomic-clock technology, including GPS/GNSS-disciplined systems and solutions designed for use when satellite timing is disrupted.

PRODUCT FAMILIES

Rubidium frequency standards; GPS/GNSS-disciplined time and frequency; NTP/PTP time servers; portable and space products; anti-jamming/anti-spoofing solutions.

APPLICATION FIT

Defence, aerospace, telecommunications, space, critical infrastructure and time distribution.

AR51-07 published example: <20 ns RMS time accuracy when GPS-disciplined.

KVG Quartz Crystal Technology

CRYSTALS, FILTERS & OSCILLATORS

KVG develops quartz crystals, crystal filters and oscillators where phase noise, stability, vibration tolerance and timing performance matter.

PRODUCT FAMILIES

XO, VCXO, TCXO and OCXO oscillators; precision crystals; crystal filters; modules and custom quartz solutions.

APPLICATION FIT

Medical imaging, test & measurement, high-end audio, research, aerospace and defence.

O-22-ELPN-VHF published example: 100 MHz OCXO.

RF & microwave components and subsystems

Components and modules for RF signal chains, conversion, amplification and high-frequency systems.

Alaris Kuhne

RF & MICROWAVE COMPONENTS

Kuhne electronic provides off-the-shelf and customised RF/microwave components and systems, with published capability extending up to 50 GHz.

PRODUCT FAMILIES

Power amplifiers; low-noise amplifiers; block down-converters; microwave source modules; frequency multipliers; signal generators and bidirectional amplifiers.

APPLICATION FIT

Satellite ground stations, telecoms, test/measurement, EMC/PIM testing, microwave heating and other industrial/government applications.

Current catalogue example: KU PA BB 005250-2 A, 50–2,500 MHz.

Linwave Technology

RF MODULES & SUBSYSTEMS

Linwave designs and manufactures RF/microwave components and subsystems, using RF and analogue design, PCB/layout, mechanical design, embedded control, assembly and test capabilities.

PRODUCT FAMILIES

Microwave modules and subsystems; custom RF components; chip-and-wire/laminate assemblies; high-frequency products and tailored designs.

APPLICATION FIT

Aerospace, defence, satellite communications, radar, test and measurement, and high-frequency RF applications.

Current supplied line card lists component/subsystem and test capability to 94 GHz.

RF semiconductors, MMICs & GaN

Amplifier and semiconductor technologies for wireless, microwave, radar and satellite communications.

ASB Inc.

RF AMPLIFIER MMICS

ASB designs and manufactures RF amplifier MMICs for wireless, wired, broadcasting and microwave systems, with families spanning low-noise through high-power amplification.

PRODUCT FAMILIES

Low-noise amplifiers; gain blocks; IF and medium-power amplifiers; GaN high-power amplifiers; digital attenuators and switches.

APPLICATION FIT

Telecommunications, broadcast/CATV, network infrastructure, GPS/GNSS, radar, defence and satellite links.

AGN1440DC published example: 13–16.5 GHz; 41 dBm (12 W) saturated CW output.

MMIC-Lab

GAN HEMTS & MMICS

MMIC-Lab's current product range includes RF GaN HEMTs based on GaN-on-SiC technology and GaAs/GaN MMICs for high-frequency RF applications.

PRODUCT FAMILIES

MLGF series GaN HEMTs in bare-die, QFN/DFN and metal-ceramic packages; MMIC power amplifiers, low-noise amplifiers, mixers and converters.

APPLICATION FIT

Radar, SATCOM and communications systems; high-frequency RF front ends and amplifier stages.

Manufacturer product page lists 28 V and 50 V MLGF GaN HEMT families.

Passives, filtering & integrated RF assemblies

Components that shape, attenuate, filter and integrate RF signals across multiple industries.

IMS Resistors

RESISTORS, ATTENUATORS & THERMAL DEVICES

IMS supplies passive components for designs where signal fidelity, power handling, thermal management and precise resistance values are important.

PRODUCT FAMILIES

RCX/RXI/HCX/TPI/LCI/MLI resistor series; N-Series and HVI; fixed and temperature-variable attenuators; broadband splitters/couplers; planar dividers; ThermaBridge™ and ThermaPlane™.

APPLICATION FIT

RF/microwave, aerospace, defence, telecommunications, medical and instrumentation. The original brochure also describes non-magnetic options for MRI-related use.

Current product catalogue includes 6 dB 2-way, 9.5 dB 3-way and 12 dB 4-way splitter examples.

Netcom Inc.

TUNABLE FILTERS & RF ASSEMBLIES

Netcom designs and manufactures tunable RF filters, LC filters, RF amplifiers, other RF components and custom integrated assemblies.

PRODUCT FAMILIES

Tunable bandpass/notch filters; LC filters; filter banks; low-noise amplifiers; IF strips; mixers; combiners; integrated filter power amplifiers and custom assemblies.

APPLICATION FIT

Military radios, co-site mitigation, aerospace/avionics communications, wireless infrastructure and medical imaging systems.

Original brochure lists LC filter designs from audio through 3 GHz RF and microwave frequencies up to 18 GHz; confirm current product-specific coverage.

High-speed interconnects & test interfaces

Paricon's separable interconnect technology supports RF, microwave, wafer-test and high-speed electronic applications.

Paricon Technologies

Paricon develops separable interconnection products built around its PariPoser® anisotropic elastomer fabric. The material is designed for thin, low-profile interconnects where bandwidth, low resistance and repeatable contact are important.

PRODUCT FAMILIES

Test sockets for LGA/QFN/BGA/copper-pillar packages; wafer-test interfaces; die-cut fabric; board-to-board and flex-to-board connections; custom sockets and assemblies.

>110 GHz

published bandwidth for PariPoser® anisotropic elastomer fabric

Where it fits

RF/microwave systems • high-speed digital • wafer testing • device test sockets • custom interconnects.

WHAT MATTERS IN SELECTION

- **Electrical:** bandwidth, contact resistance, inductance and signal integrity.
- **Mechanical:** package size, pitch, compression, repeatability and serviceability.
- **Integration:** board footprint, RF trace clearance, thermal constraints and mounting.
- **Customisation:** ask about application-specific sockets or interconnect assemblies.

Defence, aerospace & satellite communications

Map system requirements to relevant product families; the examples below are not a claim of current model availability.

Radar & electronic warfare

RF amplifier MMICs, GaN HPAs, low-noise amplifiers, tunable filters and high-frequency oscillators.

Secure radio & C4ISR

Timing/synchronisation, RF front ends, filters, amplifiers and interconnects.

Airborne & aerospace

Rugged timing products, oscillators, microwave subsystems and RF components.

SATCOM & ground stations

BUCs, down-converters, LNAs, reference sources and high-speed interconnects.

Defence & security technology

VERIFY BEFORE QUOTING

Satellite up-conversion: Ka-band 27.5–31 GHz and Ku-band 13.75–14.5 GHz BUC examples were shown.
Other examples: wideband naval digital receiver (2–18 GHz), X-band radar transceiver, X-band power amplifier (8.5–9.5 GHz) and Ka-band phased-array products.
Status: legacy brochure examples retained for context; current product status and configuration need confirmation.

Telecommunications, medical & test systems

Examples of how the portfolio maps to common engineering requirements across different sectors.

Telecommunications

Low-noise amplification, gain blocks, RF filtering, frequency control and timing for wireless infrastructure, satellite links and network systems.

Medical engineering

Low-noise quartz references support MRI/CT/ ultrasound systems; RF components and assemblies also appear in medical imaging equipment.

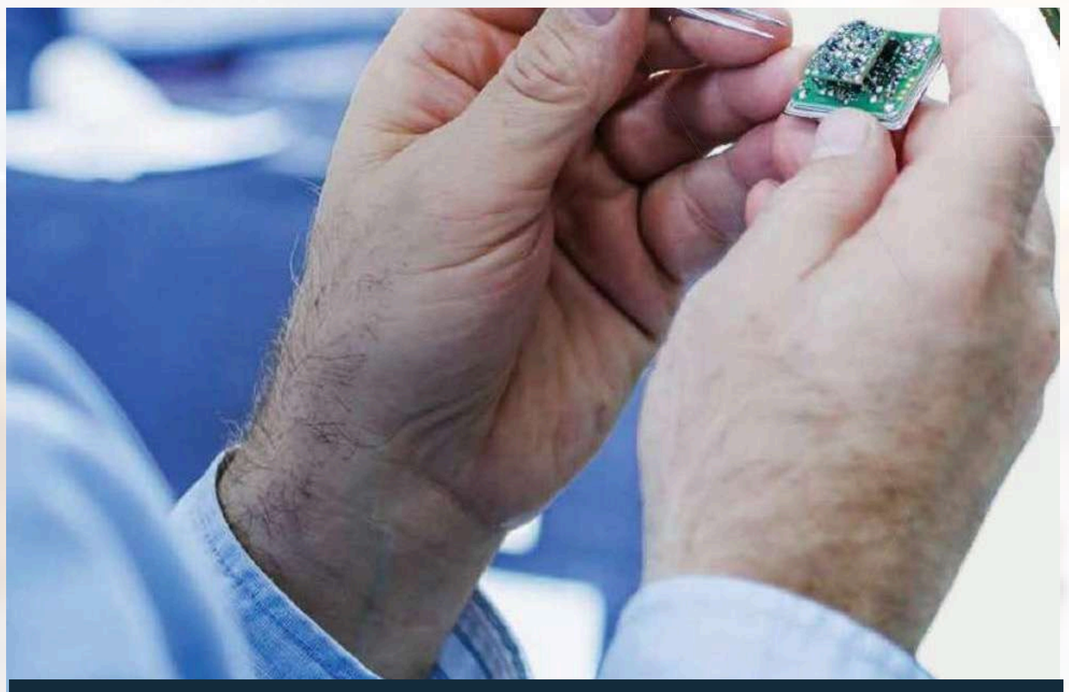
Test & measurement

Stable OCXO/reference clocks, frequency standards, signal-chain components, attenuators and high-speed device-test sockets.

Industrial & research

Microwave power generation, high-frequency sources, RF modules and thermal/passive components for lab and industrial systems.

Medical engineering • reference oscillators



Test & measurement • stable frequency references

Application note

Product selection depends on frequency range, phase noise/stability, power handling, environment, qualification and integration needs. Manufacturer datasheets remain the authority for current specifications.

Start with the application

A concise cross-reference to help route an enquiry to the right product families and partners.

APPLICATION	PRODUCT FAMILIES TO CONSIDER	PARTNER EXAMPLES
Defence & radar	RF amplifiers/MMICs, tunable filters, timing, oscillators	ASB • MMIC-Lab • Netcom • AccuBeat • KVG
Aerospace & SATCOM	BUCs/converters, LNAs, reference sources, interconnects	Alaris Kuhne • AccuBeat • ASB • Paricon
Telecommunications	LNAs, gain blocks, filters, timing and frequency control	ASB • Netcom • KVG • AccuBeat
Medical systems	Low-noise oscillators, RF assemblies, passives and thermal devices	KVG • Netcom • IMS Resistors
Test & measurement	OCXOs, frequency standards, attenuators, test sockets	KVG • AccuBeat • IMS • Paricon
Industrial & research	Microwave sources, RF modules, passives and precision references	Alaris Kuhne • Linwave • IMS • KVG

TECHNICAL VERIFICATION BEFORE PUBLICATION OR QUOTATION

Datasheets: check the latest manufacturer datasheet for model, range, performance, environmental ratings and compliance.
Availability: confirm current product status, lead time, configuration and territory with the relevant manufacturer / MHz Technologies.
Legacy brochure content: model/range examples from the original 31-page brochure are identified as historical until revalidated.

MHz Technologies

Let’s discuss your technology requirements.

For product enquiries, technical discussions or help identifying a suitable partner, contact MHz Technologies.

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TECHNOLOGY PARTNERS

AccuBeat · ALARIS KUHNE · ASB · ims · KVG · LINWAVE TECHNOLOGY · MMIC-Lab · NETCOM RF & MICROWAVE TECHNOLOGY · PARICON

Partner coverage and product specifications may change. Confirm current representation, availability and technical details before publication or quotation.