

DIE HOCHFREQUENZSPEZIALISTEN
THE RF-SPECIALISTS

GLOBES

a  milexia company



LIEFER – UND LEISTUNGSÜBERSICHT LINE CARD AND PERFORMANCE LIST



- Mikrowellentechnik
- Hochfrequenztechnik
- Leiterplattenbauteile
- Raumfahrttaugliche Bauteile
- Antennen
- Kommunikation und Mobilfunk
- Tuner und Empfängersysteme
- Kabel und Steckverbinder
- Hohlleiterbauteile und Hohlleitersysteme

- Microwave Products
- Radio Frequency
- Board Level Products
- Hi Rel (Space Qualified)
- Antennas
- Telecommunication and Mobile Radio
- Tuner and Receiversystems
- Cables and Connectors
- Waveguide Components and Systems

ÜBER UNS

GLOBES Elektronik ist eine deutsche Vertriebsgesellschaft, die auf Hochfrequenztechnik, Mikrowellentechnik und verwandte Elektronik spezialisiert ist. Niederlassungen befinden sich in Heilbronn (nahe Stuttgart), Norderstedt (Hamburg) und Germerring (München).

GLOBES vertritt hervorragende in- und ausländische Hersteller aus den USA, dem Fernen Osten, Europa, sowie Israel und vertreibt deren HF-, Mikrowellen- und elektronische Komponenten, Superkomponenten, Subsysteme, Systeme und Instrumente hauptsächlich in Deutschland, der Schweiz und in Österreich, aber auch in anderen vornehmlich (ost-) europäischen Ländern. GLOBES kann als Agent, Repräsentant oder Distributor handeln.

GLOBES Elektronik wurde 1995 gegründet. Die Gesellschafter (alle im Unternehmen tätig) und Mitarbeiter repräsentieren mehr als zweihundert Jahre Erfahrung auf dem Spezialgebiet der Hochfrequenz-, Mikrowellen- und Kommunikationstechnik. Die langjährigen Kontakte zu den Partnern, sowohl technisch als auch kommerziell, sind exzellent. Ebenso gut ist das Wissen über alle Produkte.

Daraus resultiert ein fundiertes Wissen der Marktgegebenheiten, der Applikationen und der Produkte. Die Vertriebsingenieure sind gewohnt, mit Technologien wie MMIC, Dünnfilm, Dickfilm, SMD, LTCC, diskreten Elementen, MIC, Microstrip, stripline, Airline, Suspended Substrates, Koaxial und Hohlleiter, wie auch Kombinationen aus den vorher Genannten umzugehen. Die verwendeten

Halbleiter - Materialien können GaN, GaAs oder Si sein. In Technologien wie Bipolar, CMOS, MOS, FET oder HBT. Der Frequenzbereich liegt zwischen einigen MHz bis über 100GHz.

Mit bewiesenem Erfolg und Erfahrung werden die Märkte der Kommunikation, Automobil, Forschung, Medizin, sowie militärische und raumfahrttechnische Applikationen bedient, wobei die besonderen Erfordernisse jedes einzelnen Segmentes beachtet werden.

Neben dem Tagesgeschäft mit Katalogprodukten konkretisieren wir OEM Verträge und langfristige Kundenprogramme. Zum Vertrieb gehören selbstverständlich auch der Service wie Pufferlager und Logistikvereinbarungen. Die kompletten Import- und Exportprozeduren sind sehr gut organisiert.

All dies, in Kombination mit der Erfahrung in allen kommerziellen Notwendigkeiten, ergibt eine hohe Sicherheit, dass die Interessen von Kunden und vertretenen Herstellern bestens gewahrt werden. GLOBES' Aufgabe ist es, der verlängerte Vertriebsarm der vertretenen Hersteller einerseits und der Anwalt der Kundeninteressen andererseits zu sein.



ABOUT US

GLOBES Elektronik is a German based sales and distribution company in the field of high frequency, microwave and RF electronic technologies. The headquarters are located in Heilbronn (near Stuttgart) and sales offices are in Norderstedt (next to Hamburg) and Germering (close by München/Munich).

GLOBES represents major domestic and foreign suppliers from the USA, Far East, Europe, and Israel to sell their RF, microwave, and electronic components as well as super-components, subsystems, systems and instruments into Germany, Austria and Switzerland, but also some other, mainly (East-) European, countries. GLOBES is set up to act as a representative, distributor and value added reseller.

GLOBES Elektronik was founded 1995. The partners (all actively working in the company) and employees represent more than two hundred years of experience in that specialized field of high frequency, microwave and communication. The long relations to the partners, technically and commercially are excellent, as well as the deep knowledge about all products.

This represents a very strong knowledge of the applications and the markets. The sales engineers are used to work with the technologies of thin- and thickfilm, LTCC, GaAs, GaN, SiC, SMD, surface mount, lumped element, MIC, MMIC, stripline, microstrip, airline, suspended substrates, coaxial, and waveguide as well as combinations thereof and any higher level of integration. Frequency ranges are between some MHz and beyond 100 GHz.

With proven success and experience the markets of communication, automotive, research, medical, military and satellite applications have been supported, following the special requirements and needs of each segment.

In addition to the daily business of selling standard products, large OEM contracts, long term commercial and military programs can be handled as well as the distribution of RF- and microwave components including buffer stock and logistics agreements. The complete import and export procedures are well organized.

This, combined with the strong expertise in commercial matters, assures that the principals interests are kept in the best way. GLOBES' target is to act as the principal's partner and extended arm of the manufacturer in the territory as well as our customer's advocate.

DIE SPEZIALISTEN FÜR HOCHFREQUENZ

Unser Ziel ist es, ein umfassender und kompetenter Dienstleister für die Kunden zu sein und dabei nicht den kurzfristigen Gewinn, sondern die langfristige, für alle Beteiligten profitable Zusammenarbeit zu finden. GLOBES' Verpflichtung ist Kompetenz und Qualität bei Produkten und Dienstleistungen. Der Erhalt unserer Umwelt und die Beachtung ethischer Grundsätze sind wichtige Bestandteile unseres Wirkens.

THE SPECIALISTS FOR RF

Our target is to be a full and competent service provider for our customers, having not short sighted profits but long term revenue streams and mutual benefits in mind. GLOBES' mission and dedication is competence and quality in products and services. Protecting our Environment and complying with ethical principles are important parts of our activity.

UNSER VERTRIEBS-TEAM OUR SALES TEAM

HEILBRONN



DIPL. ING. ULRICH BLIEVERNICHT

Mitgründer, Geschäftsführer
Tel.: + 49 (0) 7131 7810 – 13
Ulrich.Blievernicht@globes.de

- 1971 Abschluss Dipl. Ing. Hochschule für angewandte Wissenschaften (FHS), Hamburg
- Seitdem im Markt der HF- und Mikrowellentechnik tätig
- Vertriebsingenieur und Produktmanager bei Sivers Lab/Philips
- 1979 Gründer und Geschäftsführer einer Vertretungsgesellschaft für europäische und US – Hersteller
- Mitglied im IEEE

DIPL. ING. ULRICH BLIEVERNICHT

CEO, Co-Founder, Managing Director
Phone: + 49 (0) 7131 7810 – 13
Ulrich.Blievernicht@globes.de

- 1971 Dipl. Ing. University of Applied Sciences, Hamburg
- Since then in the RF and microwave market.
- Sales Engineer and product manager for SiverslMA/Philips;
- 1979 Managing Director for a company representing US and European suppliers.
- Member of IEEE.



DIPL.-ING. RÜDIGER EVERS

Mitgründer
Tel.: + 49 (0) 7131 7810 – 15
ruediger.evers@globes.de

- 1986 Abschluss Dipl.-Ing. allgemeine Elektrotechnik an der Ruhr-Universität, Bochum
- Vertriebsleiter für Hochfrequenz- und Mikrowellenkomponenten
- Spezialisiert auf MIL- und Raumfahrtapplikationen

DIPL.-ING. RÜDIGER EVERS

Co-Founder,
Phone: + 49 (0) 7131 7810 – 15
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- 1986 Dipl.-Ing Ruhr-University, Bochum
- Since then in the RF and microwave market.
- Sales Engineer / Manager / Managing Director for a company representing US, European and Asian suppliers
- Specializes in MIL and radio applications.



DR.-ING. FLORIAN PIVIT

Vertriebsleiter
Tel.: + 49 (0) 7131 7810 – 26
florian.pivit@globes.de

- 2000 Dipl.-Ing. Elektronik an der Universität Karlsruhe
- 2005 Dr.-Ing. an der Universität Karlsruhe
- 2006–2020 versch. Positionen im Bereich Forschung & Entwicklung bei Nokia Bell-Labs in Dublin, Irland
- 5 Jahre Abt. Leiter im Bereich Transceiver-Technologie
- Experte für aktive & passive Antennensysteme, Filter, Leistungsverstärker sowie analoge & digitale Signalverarbeitung für Mobilfunkanwendungen
- Seit 2021 Vertriebsleiter bei Globes

DR.-ING. FLORIAN PIVIT

Sales Director
Phone: + 49 (0) 7131 7810 – 26
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- 2000 Dipl.-Ing. Karlsruhe-University
- 2005 Dr.-Ing. Karlsruhe-University
- 2006–2020 various positions in Research & Developement at Nokia Bell-Labs in Dublin, Ireland
- 5 years HOD in the field of transceiver technology
- Expert in active & passive antenna systems, filters, power amplifiers as well as analog & digital signal processing for mobile communication applications
- Since February 2021 with Globes

UNSER VERTRIEBS-TEAM OUR SALES TEAM

HEILBRONN



DIPL.-ING. JAKOB GABRIEL

Vertriebsingenieur

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- 2001 Abschluss Dipl.- Ing. für Elektrotechnik an der Universität Stuttgart
- Geschäftsführer für ein IT-Unternehmen
- Seit 2004 Vertriebsingenieur bei GLOBES
- Spezialisiert auf Mikrowellenbauteile, insbesondere Halbleiter und SMD-Bauteile

DIPL.-ING. JAKOB GABRIEL

Sales Engineer

Phone: + 49 (0) 7131 7810 - 16

jakob.gabriel@globes.de

- 2001 graduated for Dipl.-Ing. Electrical Engineering at University Stuttgart
- Managing Director for a IT company
- Since 2004 Sales Engineer at GLOBES
- Responsible for Microwave products, especially Semiconductors and Board Level Products



THOMAS POLDER, M.S.C.

Vertriebsingenieur

Tel.: + 49 (0) 7131 7810 - 25

thomas.polder@globes.de

- 2018 Abschluss M.Sc. in Elektrotechnik und Informationstechnik mit Schwerpunkt in optischer Nachrichtentechnik an der Universität Stuttgart
- Im Anschluss Anstellungen Versuchingenieur in der Lasertechnik
- Erste Erfahrungen im Vertrieb als Produktingenieur für Prüftechnik in der Halbleiterbranche
- Seit September 2021 Vertriebsingenieur bei GLOBES

THOMAS POLDER, M.S.C.

Sales Engineer

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- 2018 Graduation M.Sc. in Electrical Engineering and Information Technology with focus in Optical Communications Engineering at the University of Stuttgart
- Subsequently employed as a test engineer in laser technology
- Initial experience in sales as a product engineer for test technology in the semiconductor industry
- Since September 2021 Sales Engineer at GLOBES



ANJA OLWKA

Marketing und Vertriebsassistentin

- 1996 Abschluss Industriekauffrau
- Über 20 Jahre Erfahrung im Marketing und als Vertriebsassistenz
- Seit Mai 2020 bei Globes

ANJA OLWKA

Marketing and Sales Assistant

- 1996 graduation as industrial clerk
- Over 20 years experience in Marketing and Sales assistance
- Since Mai 2020 with Globes

UNSER VERTRIEBS-TEAM OUR SALES TEAM

MÜNCHEN



DIPL. ING. (FH) THOMAS SCHULZ

Vertriebsingenieur

Tel.: +49 (0) 89 894606 – 12

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- 1981 Abschluss Nachrichtentechnik an der Universität der Bundeswehr in Neubiberg
- 1982 – 1984 Studium der Datentechnik an der FH München
- Wissenschaftlicher Mitarbeiter beim IRT München, Digitale HDTV-Übertragung über Satellit
- Entwicklungsleiter und Koordination von Großprojekten für breitbandige HF- und Mikrowellen Leistungsverstärker
- Seit 1998 Vertriebsingenieur bei GLOBES

DIPL. ING. (FH) THOMAS SCHULZ

Sales Engineer

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thomas.schulz@globes.de

- 1978 – 1981 studied at the University of the German Armed Forces, Munich, RF and Telecommunications
- 1982 – 1984 studied at the University of Applied Sciences, Munich, Data Processing and Systems
- Scientific Employee at IRT Munich, Digital HDTV Broadcast systems
- Head of development and co-ordinating and consulting for large systems at a market leading company for high power broadband RF amplifiers
- Since 1998 Sales Engineer at GLOBES



KLAUS BREITSAMETER M.Sc.

Vertriebsingenieur

Tel.: +49 (0) 89 894606 – 19

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- 2008 M.Sc. an der Hochschule München
- Zehn Jahre Erfahrung in der Hardwareentwicklung bei der Siemens AG
- Sechs Jahre Wissenschaftlicher Mitarbeiter (Hochfrequenztechnik) an der Hochschule München
- Seit 2014 Vertriebsingenieur bei GLOBES

KLAUS BREITSAMETER M.Sc.

Sales Engineer

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- 2008 M.Sc. at University of Applied Sciences, Munich
- 10 years hardware development at Siemens
- 6 years Research Associate (RF technology) at the Munich University of Applied Sciences
- Since 2014 Sales Engineer at GLOBES



DIPL. ING. (FH) CHRISTIAN HABERMANN

Tel.: +49 (0) 89 894606 – 18

Vertriebsingenieur

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- 1986 Abschluss Dipl. Ing. Nachrichtentechnik an der FH der Deutschen Bundespost in Berlin
- 1986 – 2004 nationaler und internationaler Vertrieb Rohde und Schwarz, Berlin und München
- 2004 – 2014 Planung und Vertrieb von Koordinatenmesstechnik, zerstörungsfreier Prüftechnik, elektromechanische Datenerfassung in verschiedenen Unternehmen
- Seit 2014 Vertriebsingenieur bei GLOBES

DIPL. ING. (FH) CHRISTIAN HABERMANN

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Sales Engineer

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- 1986 Dipl. Ing. University of Applied Sciences of the German Telekom, Berlin
- 1986–2004 Different national and international Sales departments of ROHDE&SCHWARZ
- 2004–2014 Planning and Selling of multiple sensor coordinate measurement systems, nondestructive component test instruments, test systems and data acquisition systems for various companies
- Since 2014 Sales Engineer at GLOBES

UNSER VERTRIEBS-TEAM / INNENDIENST OUR SALES TEAM / CENTRAL FUNCTIONS

MÜNCHEN



MARIA VLADOVICH
Vertriebsassistentin
Phone: +49 (0) 89 894606 - 11
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- 1994 M.A. der Sprach- und Literaturwissenschaften an der «Università degli Studi di Pisa», Italien
- 1995 – 2015 Assistentin des Geschäftsführers in einem Großhandelsunternehmen
- Seit 1995 Fachübersetzungen und Lektorat für italienische und deutsche Universitäten und Verlage
- Seit März 2016 bei GLOBES

MARIA VLADOVICH
Sales Assistant
Phone: +49 (0) 89 894606 - 11
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- 1994 M.A. in Modern Languages and Literatures, University of Pisa, Italy
- 1995 – 2015 Executive Assistant to the CEO at a wholesale distribution company
- Since 1995 Translations for Italian and German universities and publishing houses
- Since 2016 with GLOBES

HAMBURG



DIPL. ING. (FH) WILHELM H. DOBESLAW

Vertriebsingenieur
Tel.: + 49 (0) 40 514817 - 16
wilhelm.dobeslaw@globes.de

- 1992 Dipl. Ing. Nachrichtentechnik (FH), Fachhochschule Kiel
- Key Account Manager für SHARP Microelectronics Europe für europäische Distributoren
- Line und Account Manager für SASCO (Arrow)
- Vertrieb Halbleiter sowie Embedded Solutions Systemlösungen
- Seit März 2011 bei GLOBES
- Vertriebsverantwortung von Hochfrequenz- und Mikrowellenprodukte in Norddeutschland

DIPL. ING. (FH) WILHELM H. DOBESLAW

Sales Engineer
Phone: + 49 (0) 40 514817 - 16
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- 1992 Dipl. Ing. (FH) University of Applied Sciences, Kiel
- Key Account Manager for SHARP Microelectronics for European Distributors
- Line and Account Manager for SASCO – A Division of Arrow Central Europe
- Sales semiconductor and embedded solutions products
- Since March 2011 Sales Engineer at GLOBES

INNENDIENST CENTRAL FUNCTIONS

HEILBRONN



DORIS OHRNBERGER

CFO, Mitgründerin

Tel.: + 49 (0) 7131 7810 – 11

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- Partner, Gründungsmitglied, Prokuristin
- Leitung Finanz- und Rechnungswesen Controlling
- lange Erfahrung (über 30 Jahre) bei bekannten Vertriebsgesellschaften im Bereich der Elektronik



ANNEMARIE RAY

Leitung Auftragsabwicklung

Tel.: + 49 (0) 7131 7810 – 14

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- 1978 – 1982 Abschluss zur Industriekauffrau und Sammeln erster Berufserfahrungen
- 1982 – 1986 Elternzeit
- Seit 1986 Auftragsabwicklung in der Hochfrequenz- und Mikrowellentechnikbranche
- Seit 1996 Leitung Auftragsabwicklung / Logistik bei GLOBES



ANGELIKA BROSI

Auftragsabwicklung

Tel.: + 49 (0) 7131 7810 – 22

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- 1985 – 2002 verschiedene Textilbetriebe (Weberei) verantwortlich für den Bereich Arbeitsvorbereitung und Produktionsplanung
- 2002 Auftragsabwicklung und Materialplanung Leisten für die Caravanindustrie
- Seit 2010 bei GLOBES

DORIS OHRNBERGER

CFO, Co-Founder, Managing Director

Phone: + 49 (0) 7131 7810 – 11

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- long experience (more than 30 years) in administrative and managing work in well known sales and distribution companies
- Financial Controller and Manager Administration

ANNEMARIE RAY

Logistic Manager

Phone: + 49 (0) 7131 7810 – 14

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- 1978-1982 Graduation as an Industrial Clerk and gathering of first professional experiences
- 1982-1986 Maternity and parental leave
- Since 1986 Order Processing in the RF and microwave market
- Since 1996 Order Processing / Manager Logistics at GLOBES

ANGELIKA BROSI

Order Processing

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angelika.brosi@globes.de

- 1985 working for several manufacturers of woven fabrics, responsible for production planning and scheduling
- 2002 order processing and material planning for a manufacturer of mouldings
- Since 2010 with GLOBES

HEILBRONN

MONIKA HÄNISCH

Finanzbuchhaltung

Tel.: + 49 (0) 7131 7810 – 18

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- Verantwortlich für die Finanz- und Kreditoren- / Debitorenbuchhaltung
- Seit 1998 bei GLOBES

MONIKA HÄNISCH

Financial Accounting

Phone: + 49 (0) 7131 7810 – 18

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- Customers / vendors accounting
- Since 1998 with GLOBES

CARMEN SCHETTER

Auftragsabwicklung

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- 1982 Abschluss Einzelhandelskauffrau
- 16 Jahre Kauf und Verkauf von Echtschmuck und Uhren in einem Großhandelsunternehmen
- 15 Jahre Ein- und Verkauf von HF-, Mikrowellen- und Halbleiterbauteilen
- Seit Juli 2011 bei GLOBES

CARMEN SCHETTER

Order Processing

Phone: + 49 (0) 7131 7810 – 27

carmen.schetter@globes.de

- 1982 – Trained retail saleswoman.
- 16 years purchasing and order processing in jewellery and clocks at a distribution company
- 15 years experience in order processing for RF, microwave and semiconductor worldwide
- Since 2011 with GLOBES

ULI DIEROLF

Lagerist

Tel.: + 49 (0) 7131 7810 – 12

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- über 20 Jahre Erfahrung in der Logistik und als Lagerist
- Seit Oktober 2019 bei GLOBES

ULI DIEROLF

Warehouse Clerk

Phone: + 49 (0) 7131 7810 – 12

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- Over 20 years experience in logistic and warehouse
- Since October 2019 with GLOBES

CONTENT

PRODUCTGROUPS

MANUFACTURERS

	SEITE	Antennas	Attenuators Terminations	Amplifiers Multipliers	Cables Connectors, Adapters	Diodes Transistors Capacitors	Filters Diplexers Multiplexers	Isolators Circulators	Mixers Detectors	Noise- analyzers, Sources
AA-MCS	20			C · S · WG			C · S			
Atec	26	C · S · MM · O · WG	C · S · MM · O · WG	C · S · MM · O · WG	C · S · MM · O · WG	C · S · MM · O · WG	C · S · MM · O · WG	C · S · MM · O · WG	C · S · MM · O · WG	
Avantix	30									
Azdec (InfraRed)	32									
Berex	18			S		S				
Boonton										N
BoCen Microwave	23		WG					C · WG		
Charter Engineering	26									
Cibred Sud (Dehydrators)	35									
Coaxicom	15		C							
Comark Hitachi										
Cordon	16									
Egide										
Emisens (Liquid Scanners)	38									
Ferrite Microwave Technology	33		C · WG				C · WG	C · WG		
HBH Microwave	17			C · S · MM			C · S		C · S · MM	
Holzworth Instrumentation	32			C						
HXI Millimeter Wave Products	19	C · WG · MM	MM	C · WG · MM				MM		
ITF	24						SAW			
Kratos (Eyal, GMI, Herley)	17		C	C · S						
L3 Harris Antenna Products	14	C · W · MM								
L3 Harris ATM	12	C · WG	C · WG		C · WG				C · WG	
L3 Harris Narda - MITEQ	14	WG	C	C · S · WG	C · WG			C	C	
Linearizer	19									
Link Microtek	35	C · WG	C · WG							
Link Azdec	36									
Smiths Interconnect (Lorch)	27					C · WG · S				
LYNX Group	21		C · WG	C · WG	C · S · WG		C · WG	C · WG		
Microwave Application Group	29							C · WG		
MEGA Industries	33	C · WG	C · WG		C · WG		C · WG			
Menlo	24									
Menzel	21									
MiCable	31				C · MM					
Micro Lambda Wireless	28			C · S			YIG			
Microtech (Waveguides)	34		WG				WG			
Noisecom										N
Opto-MST	37									
Raytech X	22	C					C			
RF Morecom	16	C · S	C	C			C			
SAF	30									
SemiGen	32					S				
Sierra Microwave	22						C	C · WG · S		
Sivers IMA	20									
Southwest Microwave	32				C					
SSI Cable	31				C					
TimeLink	38									
Trimble	28									
Wavepia	18			C · S · MM		C · S · MM				
Wenzel Associates	24			C · S			C		C	
X-Microwave	15	C · S	C · S	C · S	C · S	C · S	C · S	C · S	C · S	
Yantel	23	C · S								

also S-Level Products

WG = Waveguide

C = Coaxial

S = Solder, Drop-In, Chip, SMD

MM = Millimeter >40GHz

O = Optics

IR = InfraRed

N = Noise

PRODUCTGROUPS

Phase Shifters	Power-Dividers Cougplers Hybrids	Oscillators Piezosensors Resonators	Synthesizer	Switches Matrices	Hermetical Housings	Linearizers Limiters	Sub- Systems Instruments	Timing	SEITE	MANUFACTURERS
	C · S			C · S			C · S · WG		20	AA-MCS
CSMM-OWG	CSMM-OWG	CSMM-OWG	CSMM-OWG	CSMM-OWG	CSMM-OWG	CSMM-OWG	CSMM-OWG	CSMM-OWG	26	Atec
							C · W · MM		30	Avantix
							IR		32	Azdec (InfraRed)
	S			S					18	Berex
										Boonton
				C					23	BoCen Microwave
							C · WG		26	Charter Engineering
									35	Cibred Sud (Dehydrators)
									15	Coaxicom
							C · S · MM · IR · O		16	Comark Hitachi
					H					Cordon
							X		38	Egide
C · WG	C · WG						C · WG		33	Emisens (Liquid Scanners)
C · S · MM	C · S						C · S		17	Ferrite Microwave Technology
			C				C		32	HBH Microwave
				MM			Radios		19	Holzworth Instrumentation
									24	ITF
C		C	C	C			C · S		17	Kratos (Eyal, GMI, Herley)
							C · W · MM		14	L3 Harris Antenna Products
C · WG	C · WG			C · WG			C · WG		12	L3 Harris ATM
C	C · WG	DRO					C · WG · O		14	L3 Narda - MITEQ
						C · WG · S			19	Linearizer
	C · WG						C · WG		35	Link Microtek
							O		36	Link Azdec
	C · WG								27	Smiths Interconnect (Lorch)
C · WG				C · WG					21	LYNX Group
C · WG	C · WG			C · WG					29	Microwave Application Group
				MEMS					33	MEGA Industries
			C	C · S			C · S		24	Menlo
									21	Menzel
		YIG	YIG · VCO				C · S		31	MiCable
WG	WG								28	Micro Lambda Wireless
									34	Microtech (Waveguides)
							O			Noisecom
							C		37	Opto-MST
		VCO					Repeater		22	Raytech X
							C · W · MM		16	RF Morecom
					C · S · WG		C · S · WG		30	SAF
							C · S · WG		32	SemiGen
							C · S · WG		22	Sierra Microwave
							C · S · WG		20	Sivers IMA
							C · MM		32	Southwest Microwave
									31	SSI Cable
							C	C	38	TimeLink
							C · S	C · S	28	Trimble
									18	Wavepia
C	C	Q							24	Wenzel Associates
C · S	C · S		C · S	C · S		C · S	C · S		15	X-Microwave
	S								23	Yantel

SAW = Surface Acoustic Wave

MEMS = Micro Electro Mechanical Systems

YIG = Yttrium Iron Garnet

also S-Level Products

DRO = Dielectric Resonator
OscillatorVCO = Voltage Controlled
Oscillator

MPM = Microwave Power Module

Q = Quartz

H = Housings

ACTIVE/PASSIVE



USA

www.atmmicrowave.com

L3 HARRIS NARDA-ATM

L3Harris Narda-ATM designs, manufactures, supplies and stocks a complete line of Microwave RF Components. They offer Coacial - , Waveguide - , Ka Band Satcom - , Space qualified Microwave Components and Microwave Subsystems.

- Adapter
- Attenuator
- Termination
- Coupler
- Divider
- Phaseshifter

WAVEGUIDE · COAXIAL
DC TO 50 GHz



COMARK HITACHI

Hitachi Kokusai Electric Comark LLC is a manufacturer of high, medium, and low power television transmitters specific to VHF and UHF frequencies, supplying these products to the TV broadcast market as well as for the conducts business in the scientific market. Through a combination of RF amplifiers manufactured in the Southwick facility and OEM switching high voltage power supplies, COMARK designs, sells, and supports RF related equipment for research labs that operate linear accelerators and storage rings. The scientific market encompasses facilities that specialize in High Energy Physics.

PARALLAX™ MEDIUM/HIGH POWER SOLID STATE VHF/UHF TRANSMITTERS
DCX PARAGON MSDC-IOT BASED HIGH POWER UHF TRANSMITTERS
E-COMPACT LOW/MEDIUM POWER SOLID STATE UHF TRANSMITTERS
AT SERIES LOW POWER SOLID STATE VHF/UHF TRANSMITTERS
LEX-2000 MPEG-2 DIGITAL PROGRAM ENCODER / MULTIPLEXER
EXACT-ATSC & EXACT-DVB DIGITAL TV EXCITERS

FREQUENCY RANGE UP TO 700 MHZ &
POWER LEVELS UP TO 100 KWATT

USA

www.comarktv.com



L3HARRIS NARDA-MITEQ

For over 60 years Narda-MITEQ has been serving the Microwave/RF Markets with high quality, reliable Components, Integrated Microwave Assemblies, Subsystems, Space and Satellite Communication Products. Narda-MITEQ is dedicated to achieving technical excellence and satisfying our customers' specific needs by offering catalog products, as well as custom engineered solutions.

Passive Components:

- Coupler
- Power Divider
- Attenuators
- Termination
- Phase Shifter
- Mixer
- Doubler
- Modulator

Active Components:

- Amplifier
- Oscillator
- Synthesizer
- Converter
- Pin Switch
- Switch Filter Bank
- Fiber-Optic Product

SATCOM Products:

- Converter
- Translator
- Amplifier
- Switchover Unit
- Uplink Power Control
- Equalizer
- Fiber-Optic



USA

www.nardamiteq.com

WAVEGUIDE · COAXIAL · SMD
DC TO 60 GHz



L3HARRIS ANTENNA PRODUCTS

L3Harris Antenna Products designs, manufactures, supplies high end antennas for commercial air transport, communication, navigation, interprogration, EW / ELINT, missile, decoy as well as for SPACE applications.

Antennas:

- Spiral
- Horn
- UHF / VHF
- Broadband Polarizer
- Integrated / Conformal
- Radome



USA

www.harris.com/what-we-do/antenna-products

WAVEGUIDE · COAXIAL · SPACE QUALIFIED
DC TO 40 GHz





USA

www.boonton.com

BOONTON

Boonton Electronics („Boonton“) is a leader in high-performance test instrumentation and sensors. Setting the highest standards in accuracy and ease-of-use, Boonton Electronics („Boonton“) is recognized as a leader in high-performance test instrumentation and sensors. We are a manufacturer of test equipment dedicated to measuring the power of RF and microwave systems used in both military and commercial sectors.

- RF Power Meters
- USB Power Sensors
- Modulation Analyzers
- Audio Analyzers

FREQUENCY RANGE
50 KHz TO 40 GHz



USA

www.noisecom.com

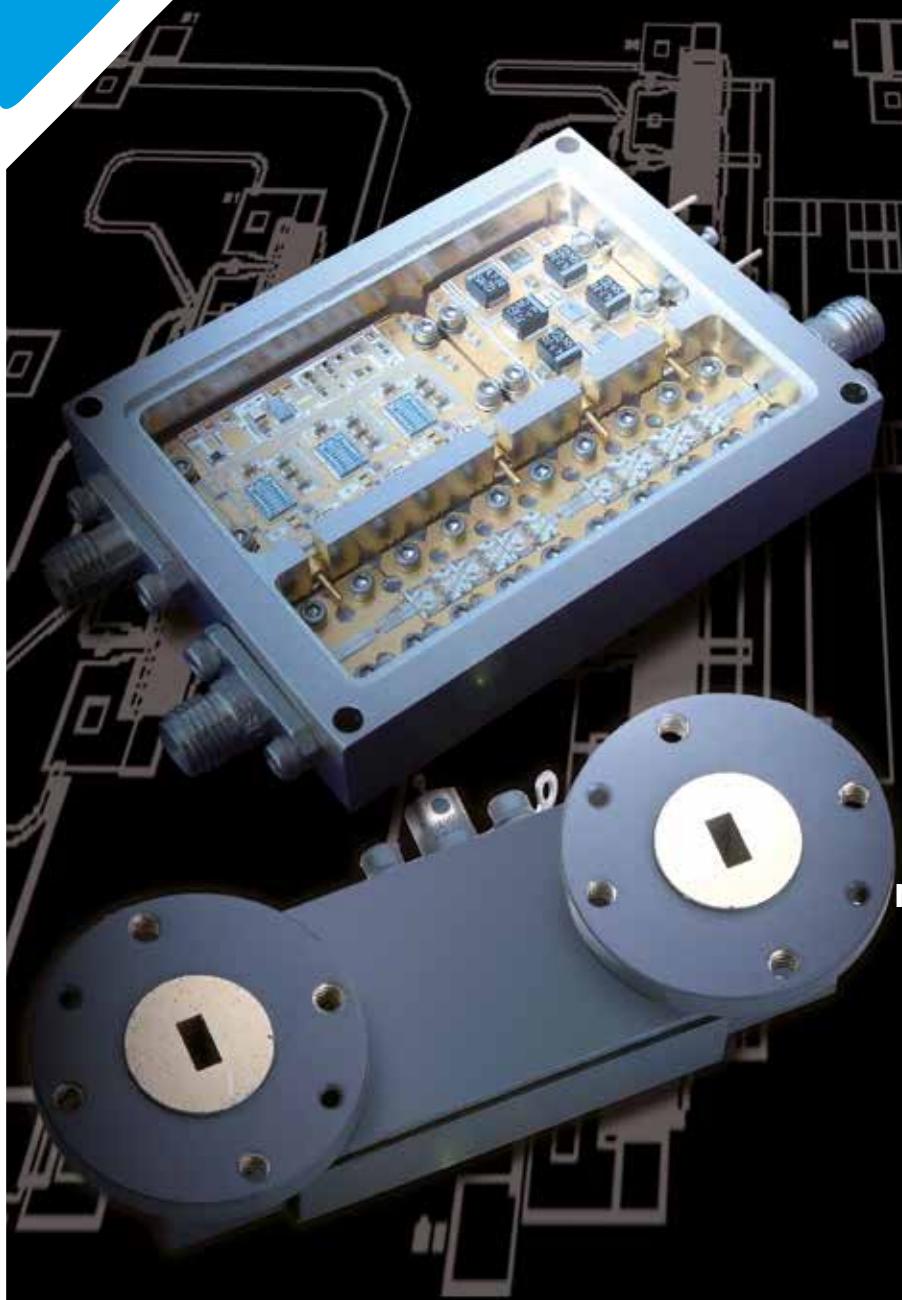
NOISECOM

is a leader of RF and microwave noise sources for signal jamming and impairment, reference level comparison and calibration, receiver robustness testing, and jitter injection. Electronic noise generation devices from Noisecom come in a variety of product types including, noise diodes, built-in-test modules (BITE), calibrated noise sources, jitter sources, cryogenic noise standards and programmable instruments. Calibrated noise sources are available from audio to millimeter wavelengths in coaxial or waveguide modules. Programmable instruments are highly configurable and able to generate precise Carrier-to-Noise, Signal-to-Noise and broadband white noise. Noisecom products are customizable to meet the unique needs of challenging applications and can be designed for high power, high crest factor, and specific filter responses with a wide selection of input and output options.

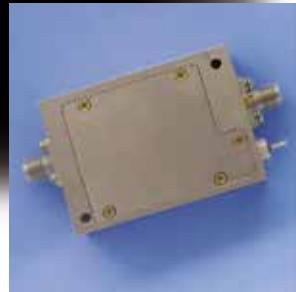
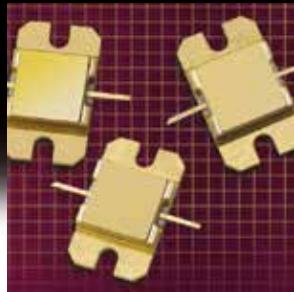
FREQUENCY RANGE
UP TO 110 GHz



VERSTÄRKER



AGC Verstärker
Antennen Verstärker
Booster Verstärker
Breitband Verstärker
Buffer Verstärker
CAMP/ LCAMP Verstärker
CATV Verstärker
Drop-in Verstärker
GaAS Verstärker
GaN Verstärker
Halbleiter Verstärker
Hochfrequenz Verstärker
Hohleiter Verstärker
Kanal Verstärker
Kleinsignal Verstärker
Koaxial Verstärker
Leistung Verstärker
Linear Verstärker
LNB / LNC Verstärker
Logarithmische Verstärker
Mast Verstärker
Mess Verstärker
Mikrowellen Verstärker
Millimeterwellen Verstärker
Mobilfunk Verstärker
Modul Verstärker
Multioktav Verstärker
Puls Verstärker
Rauscharme Verstärker
Regel Verstärker
Röhren Verstärker
SDVLA Verstärker
Transistor Verstärker
TMA Verstärker
TWT Verstärker

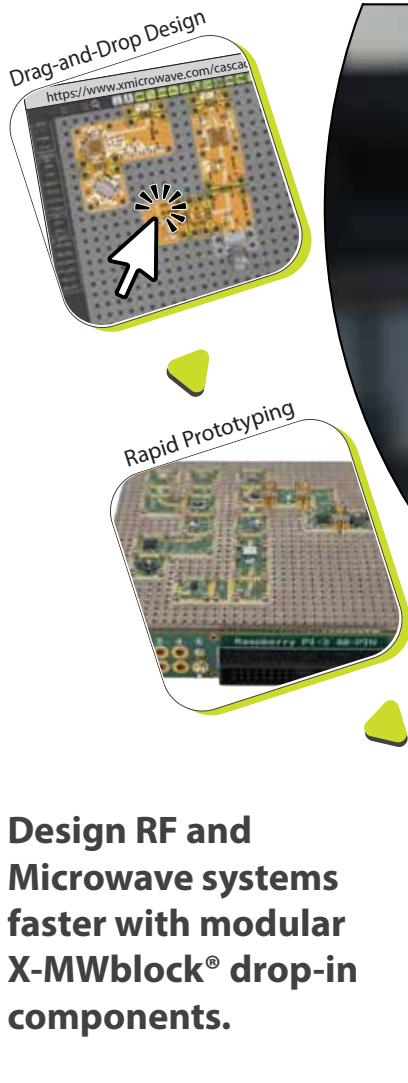


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Tel. (040) 514817-0 • Fax (040) 514817-20
- MÜNCHEN** Streiflacher Str. 7 • 82110 Germering
Tel. (089) 894 606-0 • Fax (089) 894 606-20



Prototype to Production with Modular RF Building Blocks



Featuring packaged and bare die devices from the industry's leading manufacturers, the modular X-MWblock design system allows RF and Microwave engineers to design, prototype, and produce integrated microwave assemblies (IMAs) faster at lower cost with increased probability of first past design success.

X microwave

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GLOBES 
a  milexia company

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COAXICOM

Coaxicom designs, manufactures and sells an extensive line of standard and custom microwave and RF coaxial cable connectors and cable assemblies, all available in 50 or 75 Ohm impedance including SMA, SSMA, TNC, BNC, Type N, SMP, MMCX and more.

They serve important industries such as the US military, automotive, medical, instrumentation, aerospace, defense, telecom, wireless alternative energy, space and more.



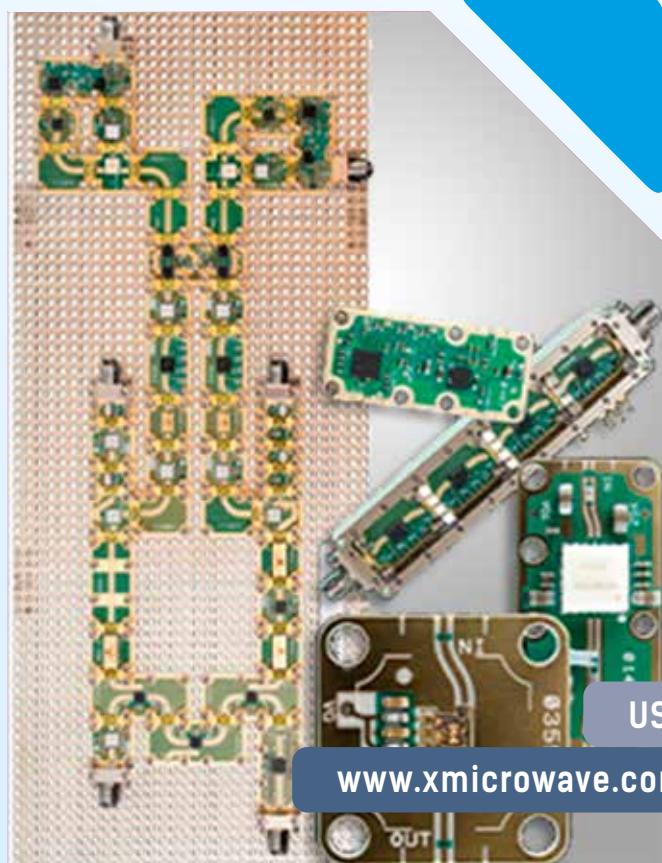
USA

www.coaxicom.com

X-MICROWAVE

"Design faster, more efficiently, at lower cost while increasing the probability of first pass success."

- Amplifier
- Attenuator
- Balun
- Filter
- Diplexer
- Bias Tee
- Coupler
- Divider
- DC-DC converter
- Demodulator
- Detector
- Limiter
- Oscillator
- PLO



USA

www.xmicrowave.com

COAXIAL AND SMD
DC TO 95GHZ

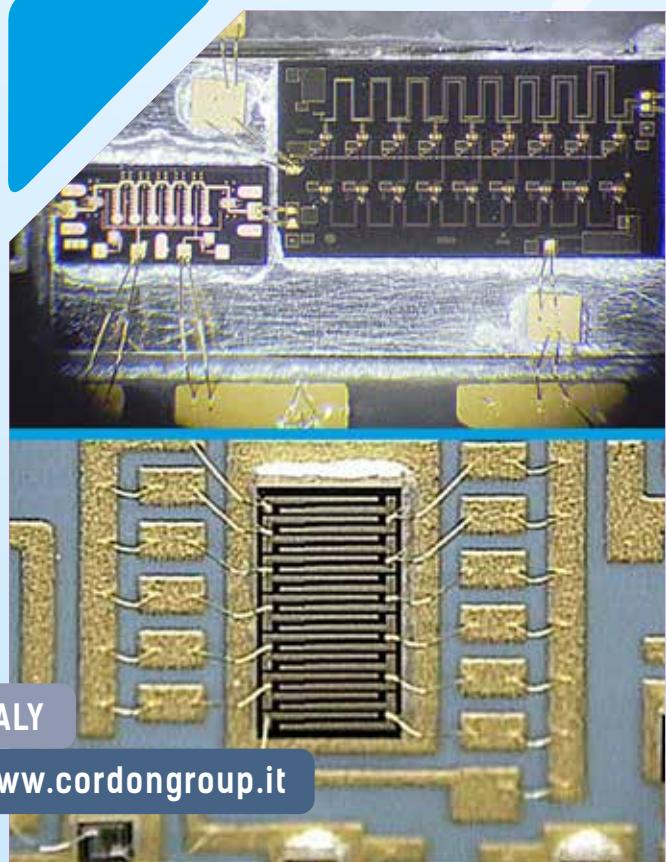
X microwave

ACTIVE/PASSIVE



KOREA

www.rfmkorea.com



ITALY

www.cordongroup.it

RF MORECOM

RF MORECOM/RFM Wireless is a market leader for RF and M/W passive and active products such as Filter/Diplexer/Triplexer/Quatroplexer/Multi Combiner/TMA/Coupler/Divider/PA/RF sub module/Switch bank, etc. We make very LOW PIM product below 160dBc at 2 tones with 20 watts testing.

- Ceramic Filter / DPX
- Multi Combiner
- FEU (Front End Unit)
- TMA (Tower Mounted Amplifier)
- Cavity Filter/Duplexer
- PA (Power Amplifier)
- Repeater Dual Band / Single Band
- GPS Patch Antenna / Telematic Antenna

COAXIAL · SURFACE MOUNT · SMD
100 MHz TO 4 GHz



RF MORECOM

CORDON ELECTRONICS

Is an Italian based manufacturing facility for all RF and microwave technologies, Photonics and Microwave-Photonics. Full integrated services from Design up to Manufacturing, build to Spec. Thermal Analysis Management and mechanical Design is part of their service as well as electrical, layout analog and digital Design. ITAR free according all requested MIL-STDs.

COMPONENTS:

Packaged for high Frequency (up to 90 GHz) as well as MW complex devices

MODULES:

Digital controller attenuators amplifiers, limiters, mixers, switches, transceivers, Voltage Controlled Oscillator (VCO), TX-RX transceivers

Radio over Fiber data link integration and Test

Aerospace, Defense, and Naval

C
CORDON
ELECTRONICS

HBH MICROWAVE

HBH Microwave was founded in 1999 and is located in Stutensee, part of the Technology Region of Karlsruhe

Space

- 10 years in space
- Front End Modules

Communication

- Front End for SDR
- Railway

Radar

- Front End
- Power Amplifiers

Amplifiers

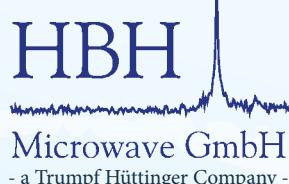
- Pulse amplifiers
- Power amplifiers up to 20kW

Solution and Service

- Customer specific RF Design

COAXIAL · SMD

3 TO 90 GHz



Microwave GmbH

- a Trumpf Hüttinger Company -



GERMANY

www.hbhmw.de

KRATOS GENERAL MICROWAVE & EYAL

- Frequency source (Synthesizer, DTO, PLO, VCO)
- Synthesizer with Modulation Capabilities
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- Integrated Microwave Assembly (IMA)
- RF Front Ends, Frequency Converters and DLVA
- Digital and Analog Beam Former
- Receiver – Transceiver
- Multi-Channel Immune GNSS Receiver
- Pin Diode Switch up to SP25T, 0.1 to 40GHz
- High resolution Attenuator – Limiter
- Phase shifter
- IQ vector modulator
- Switched filter bank – Mixed technologies
- Components for In Flight Entertainment



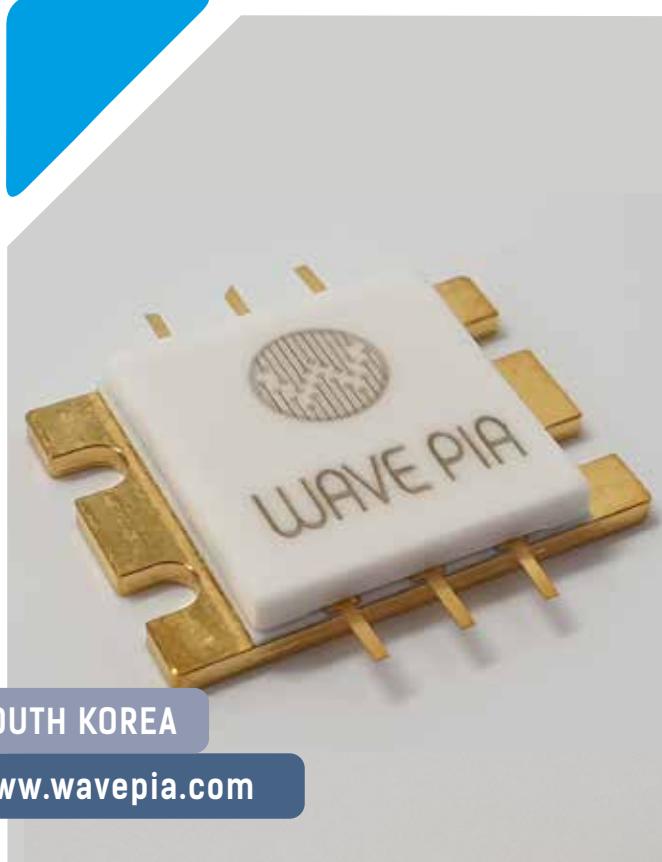
ISRAEL

www.kratosmed.com

COAXIAL · SMD

DC TO 40 GHz





SOUTH KOREA

www.wavepia.com

WAVEPIA

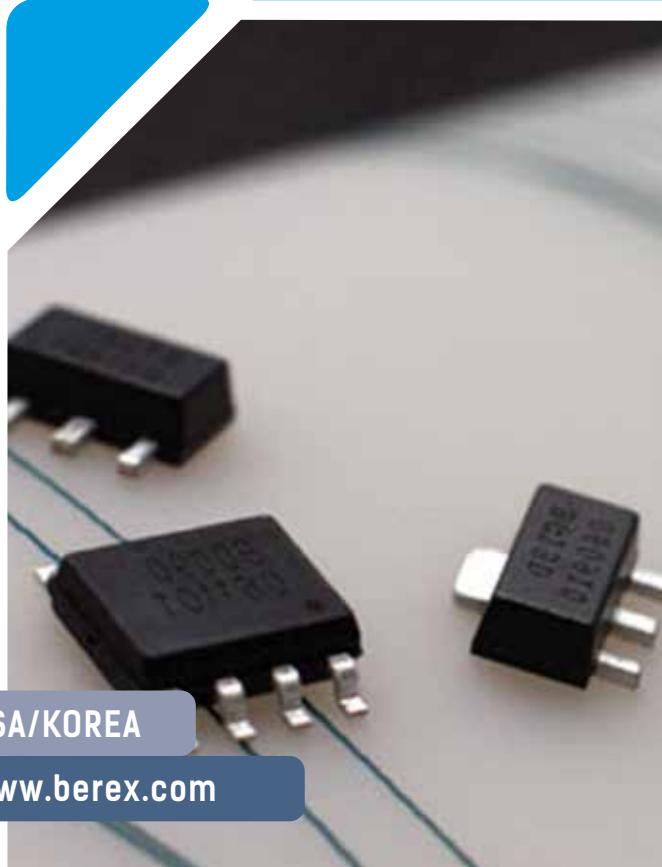
WAVEPIA is the RFIC/MMIC design house based in South Korea. They design and develop RF GaN HEMT Bare dies and RF GaN Transistors which are customizable upon the customer's request.

They provide not only the devices, but also their own RF solutions named as High Power GaN Oscillator and High Power GaN PLL.

FREQUENCY UP TO 31 GHZ



WAVE PIA



USA/KOREA

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BEREX

- Transistor with Frequencies up to 40 GHz
- Gate width of 0.2 mm to 2.4 mm
- Power up to 0.25 W to 3 W

• Internally Matched IF Amplifier

• Wide Band LNA & Driver

• Medium and High Power LNA

• Gain Block

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• Power Divider

• MMIC

• GaAs

• MESFET

• InGaP/GaAs

• SMT

• HBT

• pHEMT

• SiGe

• Bare Die

• Chip and packaged

SMD
UP TO 40 GHz



LINEARIZER

Linearizer Technology Inc. (LTI) supplies linearizer for SSPAs, TWTAs and KPAs, for ground, flight and space applications. It can provide linearizers for any frequency from dc through light. Production units to V-band. Rack mount linearizers (WAFLs) forteleports and linearized block upconverters (LBUCs) are now available.

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SMD
WAVEGUIDE
SPACE APPLICATIONS
1 TO 40 GHz



USA

www.lintech.com

HXI

Components (20 GHz to 110 GHz)

- Power Amplifier
- Mixer & Upconverter
- Switch & Attenuator
- Waveguide & Test Accessory
- Custom Specifications Available
- Low Noise Amplifier
- Frequency Multiplier
- Isolator & Circulator

Subsystems (X-Band through W-Band)

- Radar Front End (Build-to-Spec), X-Band to W-Band)
- Automotive Radar Test Components and Assemblies (76–81 GHz)
- 5G Test Components and Assemblies (28, 38, 57–71, 71–76, 81–86 GHz)
- Specialized Point-to-Point Radios Educational Institutions & Development Organizations
- Coaxial & Waveguide Products
- Custom Assemblies Available



USA

www.hxi.com


Millimeter Wave
Products

ACTIVE/PASSIVE



SWEDEN

www.siversima.com

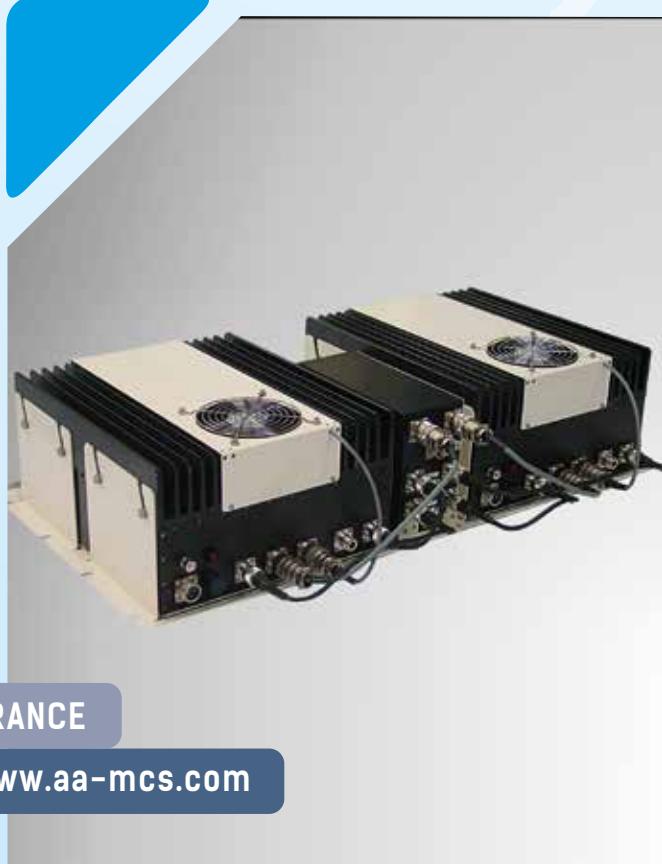
SIVERSIMA

Sivers IMA is a leading developer and manufacturer of millimeter wave products with more than 60 years of innovation experience. This will help you collect, analyze and send information in ways that were not possible before.

- FMCW Front ends
- FMCW development Kit
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- WiGig products

COAXIAL
SMD
3 TO 90 GHz

SIVERSIMA



FRANCE

www.aa-mcs.com

AA-MCS

AA-MCS is a European leader in design, development, and manufacturing of passive and active Radio frequency and Microwave components.

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- | | |
|--------------------------|------------------|
| • Lumped Element | • Ceramic |
| • Cavity | • Tubular |
| • Dielectric Resonator | • Microminiature |
| • Discrete | • Tunable |
| • Stripline & Microstrip | |

Customized Power Amplifiers
Customized Passive Products

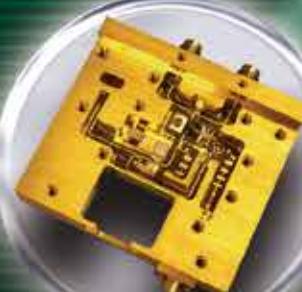
COAXIAL · WAVEGUIDE · SMD
UP TO 40 GHz



Millimeterwellen

Why HXI?

- ✓ Broad product range
- ✓ 25+ years average millimeter wave experience within engineering staff
- ✓ Fast prototyping using single function modules from our catalog
- ✓ Optimum subsystem configurations for production using state-of-the-art integration methods
- ✓ Small company speed and agility
- ✓ Low overhead allows low cost development and manufacturing



35 GHz Integrated Transceiver



Standard Catalog Components



60 GHz FMCW Radar

Repair/Refurbishment Services

Low Noise Amplifiers
Power Amplifiers
Frequency Converters
Switches and Attenuators
Ferrite Devices
Custom Components and Subsystems



Millimeter Wave
Products

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a milexia company



hf-welt@globes.de
www.globes.de



USA

www.sierramicrowave.com

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- Isolator and Circulator
- Combiner & Divider
- Bias Tee
- Equalizer
- Filter & Multiplexer
- Hybrid
- Integrated Assemblies
- Ferrite & PIN Diode Switch
- Termination
- Adapter
- High Power TVAC/Multipaction Test Capability

WAVEGUIDE · COAXIAL · DROP-IN · SMD
SPACE APPLICATIONS · 500 MHZ TO 65 GHZ



SIERRA MICROWAVE



USA

www.raytechx.com

RAYTECH INC

Raytech is based in Torrance California, US and is specialized in designing, manufacturing and testing on high performance & customized millimeter-wave products from 10 – 170 GHz

COMPONENTS:

System In Package for high frequency application (up to 170 GHz)

- Coupler
- Transition
- Combiner
- Isolator
- Antenna
- Filter
- Adapter
- System Assembly



MENZEL ELEKTRONIK

Special development of active subsystems like synthesizers and passive components like power dividers or clock oscillator distribution networks

COAXIAL
SMD
UP TO 26.5 GHz



MENZEL

LYNX

The European name in RF components

Passive components at ultra low cost up to 18 GHz and 500 W CW.

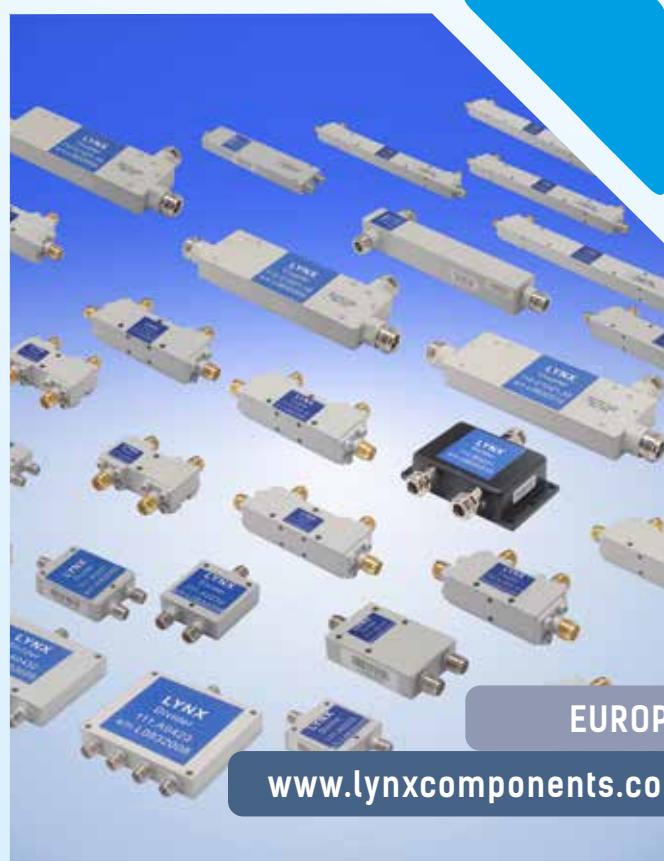
The LYNX range of components are marketed, stocked and distributed throughout Europe. Customers benefit from fast delivery, exceptional cost and superior quality product as backed by the 'LYNX Group' partners.

The LYNX group brings a wealth of technical expertise and capability in design, manufacture, support services and sourcing.

- Attenuator
- Coupler
- Waveguide
- Termination
- Cable
- Isolator & Circulator
- Power Divider
- Adapter

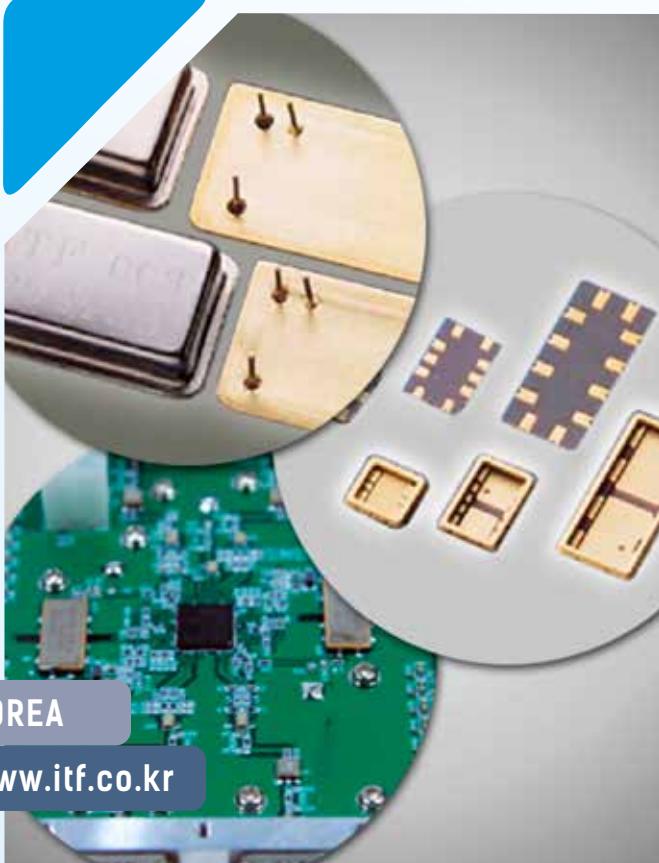
WAVEGUIDE
SMD
COAXIAL
DC TO 18 GHz

LYNX



EUROPE

www.lynxcomponents.com



ITF

ITF is a manufacturer of standard and custom frequency control components, specializing in standard and custom SAW filters.

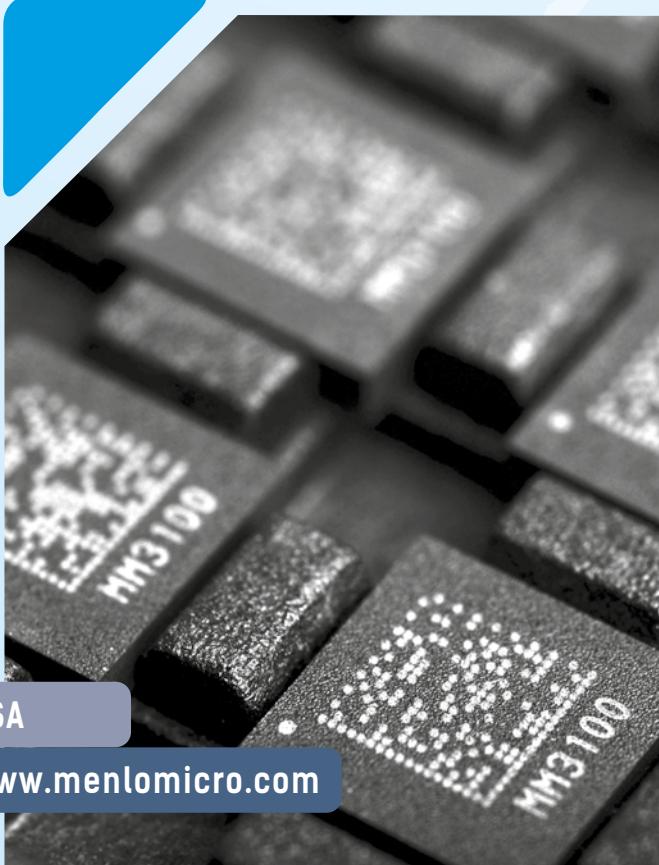
Products

- SAW [IF, RF, Resonators] Filter
- SAW Band Reject Filter
- SAW Notch Filter
- Stripline Filter

Applications

- Repeaters, Radio Link
- Automotive, Home Security, Smart Meter, RFID, GPS+GNSS, Set top Box, WiFi/Bluetooth

SMD
0.1 TO 2.1 GHz



MENLO

Menlo Micro is reimagining one of the most fundamental building blocks of electronic systems – the switch. Its Digital-Micro-Switch platform is a game changer for those who design electronic systems, with products serving multiple industries including: 5G mobile networks, industrial IoT markets, tunable filters & RF front-ends, wireless power transfer, test & measurement and medical instrumentation.

- High Voltage switching products (to 1000V)
- RF Tuning products (up to 25W and 3GHz)
- RF Switching products (up to 25W and 12GHz)
- AC/DC Power Relay (10A and beyond)

SMD
DC TO 18 GHz

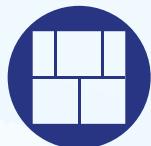


YANTEL

Yantel, founded in July 2004, boasts a strong R&D team of Ph.D, professors and overseas-educated experts. As a national-level High-Tech enterprise, we are in constant pursuit of innovation. By leading edge proprietary technologies in RF microwave active & passive components and IC design techniques in MMIC & RFIC, today's Yantel holds over forty invention patents granted in China, USA, Europe, Korea and Japan, etc.

- Temperature Compensation Attenuator
- Chip Attenuator
- Miniature Attenuator Fix & Variable & Step
- SMD 3 dB Hybrid
- SMD & IC Directional Coupler
- IC Power Divider
- SMD Tunable Inductor
- IC Balun

SMD · COAXIAL
DC TO 26.5 GHz



Yantel



CHINA

www.yantel-corp.com

BOCEN

Isolators & Circulators

BoCen's main products include ferrite components, high performance RF filters, PIN diode control devices as well as integrated assemblies and modules for RF and microwave applications covering the frequencies up to 40 GHz with hundreds of standard products and many more customized products, which are used in wide range of RF&Microwave and wireless communications applications including military, commercial, broadcast, test&measurement, etc.

WAVEGUIDE · SMD · COAXIAL
30 MHz to 40 GHz



CHINA

www.bocenmw.com



PHILLIPINES

www.atecphil.com

ATEC

ATEC Connectivity is AUTOMATED TECHNOLOGY (PHIL.), INC.'s Division that has over 22 years of proven track record and experience manufacturing high technology products in the Philippines that specializes in RF, Microwave and Millimeterwave manufacturing solutions for existing and emerging products of OEMs and ODMs. Assembly and Test capability of various RF and microwave products from components to system level from DC to 90GHz.

- RF, microwave and millimeterwave devices/products
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- Radar Sensor devices
- Complex box build products
- Telecommunications products
- Satellite communications products
- Various wireless broadband products
- Aerospace products
- Discrete components
- IoT devices



USA

www.ceiswitches.com

CHARTER ENGINEERING

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- Very High Power
- Fast Delivery
- Terminated or Non-Terminated
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- Competitive Price
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- Outstanding Quality

Low Passive Intermodulation (PIM) expert: -160 dBc min. (over 100,000+ shipped)

COAXIAL
DC TO 40 GHz



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- Low Noise Multiplier
- Low Noise Divider
- Low Noise Signal Translator
- Low Noise Phase Lock Loop

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Sub-Assembly • Instruments

Integrated Microwave Assemblies
OCXO Based • Frequency Conversion

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SPACE APPLICATIONS
1 MHz TO 28 GHz



Wenzel



USA

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Cavity Filters

- High Q Low Loss
- BW <0.5 to 66%

Ceramic Filters

- 400 MHz to 3 GHz
- Bandwidth 0.5 to 5%

Tubular Filters

- Bandpass, Lowpass
- 2 Thru 10 Sections
- 2 Thru 200 Watts Power Handling
- High side sharp

- Discrete Filter
- Helical Filter
- Interdigital Filter
- Stripline & Microstrip Filter
- Lumped Element Filter
- Comline Filter
- Tunable Filter

- Diplexer & Triplexer
- Dielectric Resonator
- Integrated Assembly and RF Products

COAXIAL · SMD
WAVEGUIDE
30 MHz to 40 GHz

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SYSTEMS AND INSTRUMENTS



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Micro Lambda Wireless is the largest independent supplier of YIG components in the world!
Over 20,000 YIG-based components and assemblies delivered annually.

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- Comb Generators
- Oscillators
- Band stop Filters
- Synthesizers
- Benchtop-Filters
- Benchtop-Oscillators
- Benchtop-Synthesizers

TO-8 housings

COAXIAL · SMD · UP TO 50 GHz



MICRO LAMBDA
WIRELESS, INC.



TRIMBLE

Trimble timing and synchronization products provide the pulse for some of the world's largest networking companies. Applications from CDMA base stations to paging towers to e-commerce. Trimble timing products offering the best price/performance ratio in the industry. LTE, WiMax, 4G, GPS, GLONASS.

- NTP Time Server
- Multi-GNSS Timing Moduls
- Multi-GNSS Clock Boards
- GPS Disciplined clocks
- 360 Multi-GNSS Smart Antenna

Coaxial and SMD Components for all timing applications.



QUARZOSZILLATOREN.

“Quietly the Best”

100 MHz EUROPAC PHASE LOCK OSCILLATOR

- Europac Case: 1.44" (36.576 mm) x 1.13" (28.702 mm) x 0.5" (12.7 mm)
- Ultra Low Noise: -178 dBc/Hz (100 kHz offset)
- Temperature Stability: ±250 ppm, -20 to +70°C
- Low Power Consumption: ≤1.2 Watts, steady state
- Locks to 10 MHz Sine (-5 to +15 dBm) or LVTTL (3.3V); ≤10 Hz LBW



10 MHz QRb Sync – LOW PHASE NOISE RUBIDIUM + OCXO CLOCK

- Case Size: 6" (152.4 mm) x 5.7" (144.78 mm) x 1.1" (27.94 mm)
- Locks to 1 PPS Input; GPS/GNSS Disciplining Technology
- Low Phase Noise: -165 dBc/Hz (10 kHz offset)
- Excellent Stability: ≤5E-11/month; ≤1E-10, 0 to +50°C
- Low G-Sensitivity: to 1E-10/g per axis
- Internal Vibration Isolation Options: for ~5E-12/g @ 2 kHz offset



5, 10 & 100 MHz LOW NOISE FREQUENCY STANDARD – W2U

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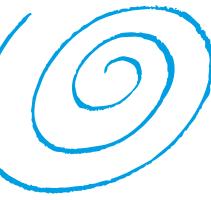
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DC~67GHz

Millimeter Wave Cable Assemblies

Feature & Advantage :

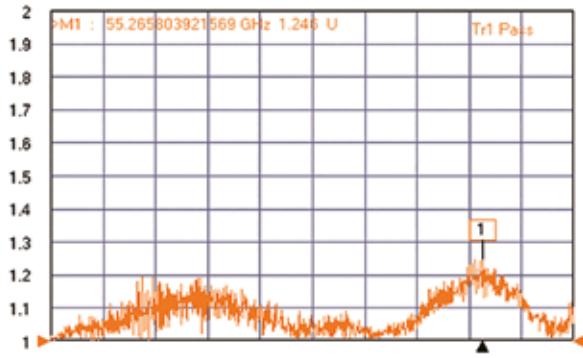
- **Excellent VSWR:** 1.4:1@67GHz Max.
- **Insertion Loss:** 6.2dB/m@67GHz Max.
- **Amplitude Stability over Flexure:** <±0.15dB@67GHz
- **Phase Stability over Flexure:** <±6°@67GHz
- **Phase Stability over Temperature:** 500ppm@-40~+70°C Typ.
- **Cost Effective**



B67-0P-0P-L (L=Length)

Test Report for 1M Cable Assembly

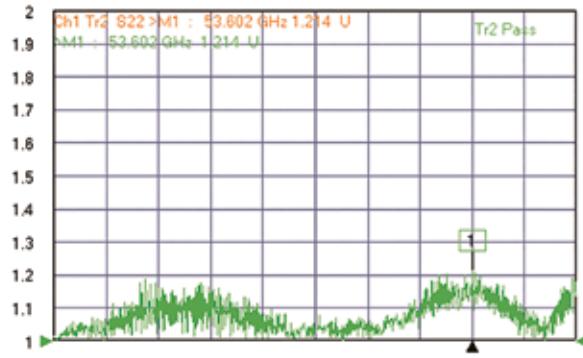
Tr1 S11 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Tr3 S12 Trans LogM RefLvl: -3 dB Res: 1 dB/Div



Tr2 S22 Refl SWR RefLvl: 1 U Res: 100 mU/Div



Tr4 S21 Trans LogM RefLvl: -3 dB Res: 1 dB/Div



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DC TO 50 GHz



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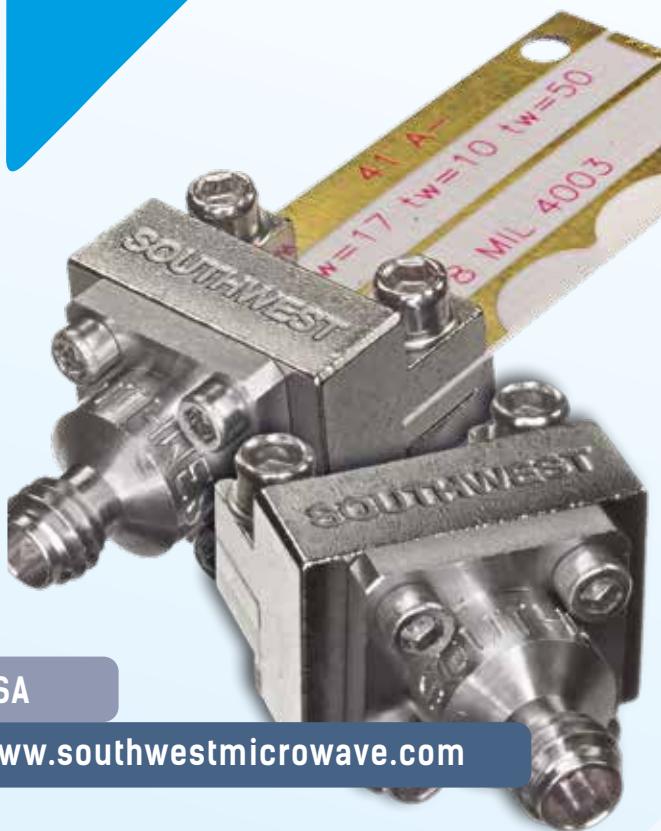
MiCable Inc. is a joint venture established by SSI Cable Corp., USA & Mitron Inc., China in 2006. MiCable's mission is to offer the global customer high quality products with "Best in Class" customer service & cost saving solutions.

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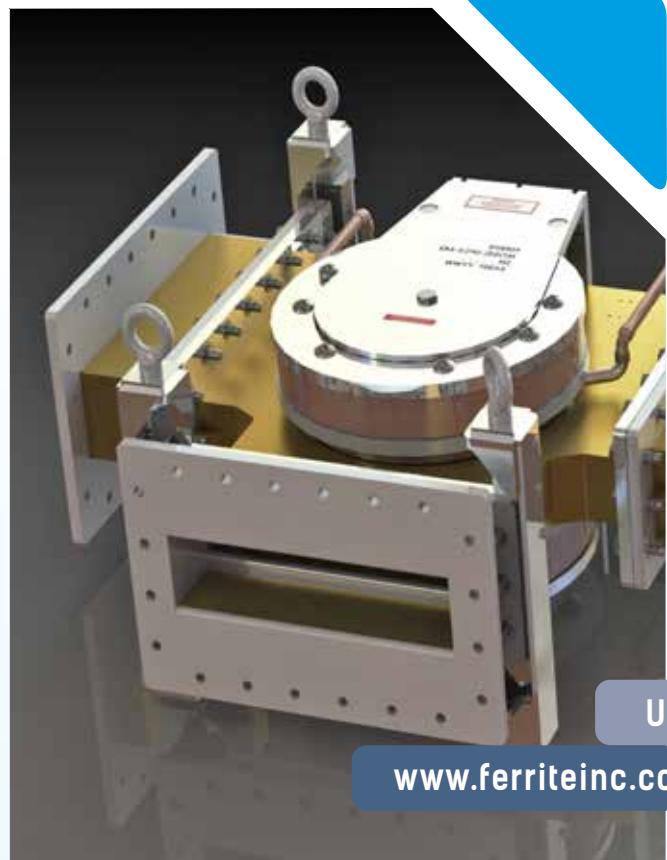


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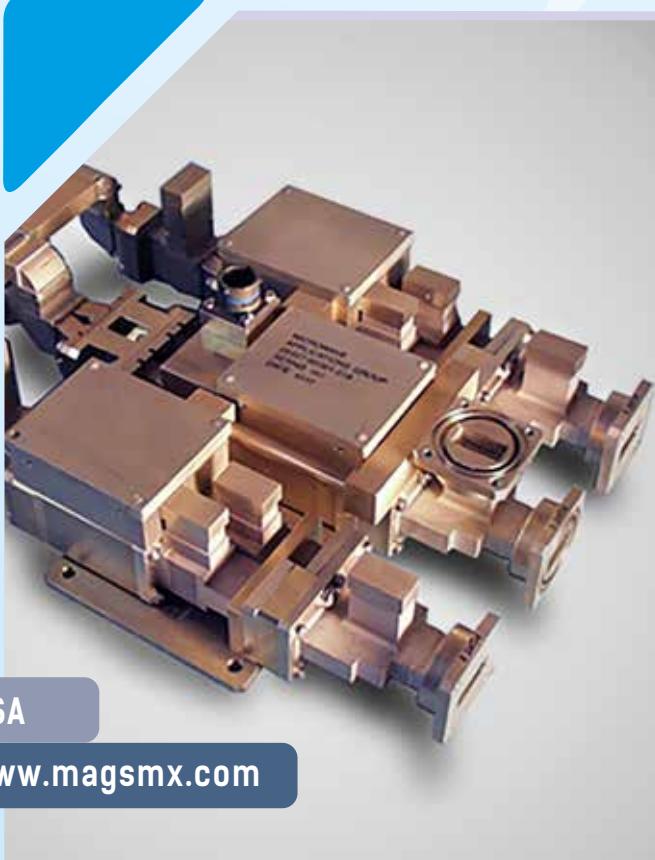
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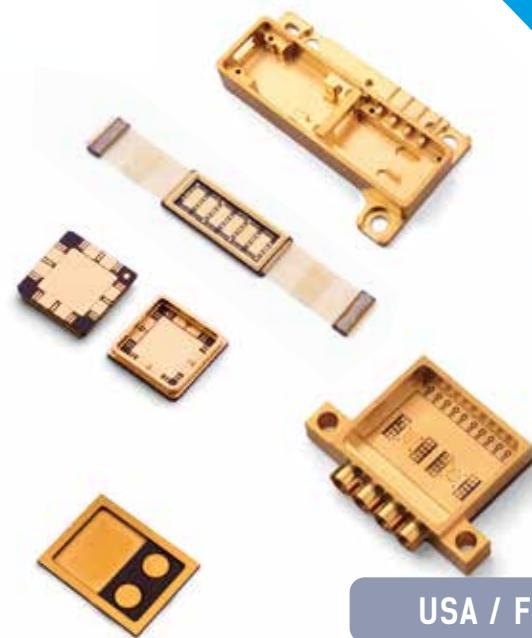
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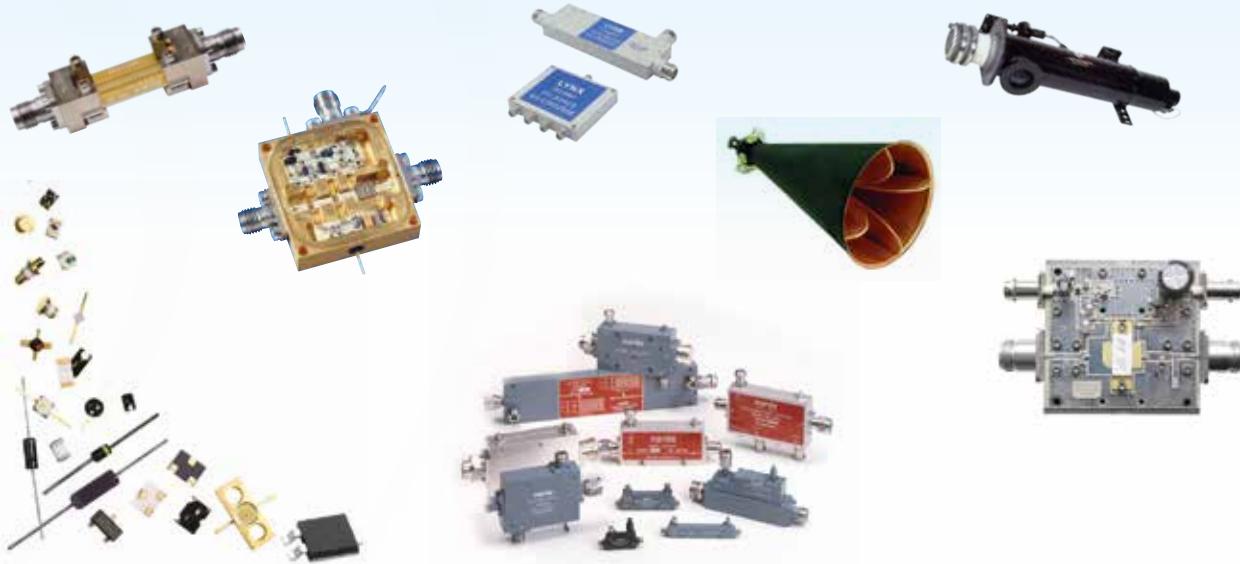
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