

Mimix

BROADBAND™

October 2005 Short-Form Product Catalog



GaAs Semiconductors

ABOUT Us

Mimix Broadband, Inc., an ISO 9001-registered company, designs, develops and supplies high performance gallium arsenide (GaAs) semiconductors from DC to 50 GHz for microwave and millimeter-wave wireless communications applications - as bare die or in surface mount packages. Mimix has assembled a team of world-class scientists focused on the development of state-of-the-art semiconductors for the last decade. The Company also leverages strategic partnerships for manufacturing, in order to expedite the time-to-market cycle and meet market requirements. Due in part to its recent acquisition of Celeritek, Mimix offers a highly diversified product line that serves the top tier telecom, satellite and defense companies. Mimix combines its design capabilities in complete communications systems with semiconductor device expertise to deliver innovative solutions for its customers' most challenging applications.

Company Highlights

- February 2000** - Mimix is founded and sets out to achieve our new strategic direction: the design, development and marketing of MMICs.
- December 2000** - Mimix acquires Tadiran Microwave Network's Australia Design Center for advanced design and engineering capabilities.
- February 2001** - Mimix launches our first MMIC products into the marketplace.
- November 2001** - Mimix announces that the Company has been registered to ISO 9001.
- December 2001** - Mimix closes on a Series A preferred investment led by 3i and First Capital Group of Texas.
- March 2002** - Mimix announces that our Australia Design Center subsidiary also has been registered to ISO 9001.
- October 2002** - Mimix announces the relocation of our corporate headquarters to a new facility in Houston, Texas.
- November 2003** - Mimix closes on a Series B preferred investment.
- November 2003** - Mimix successfully upgrades to ISO 9001:2000.
- February 2005** - Mimix acquires a majority stake in Hocom Communications, Inc., a MMIC test, inspection and packaging operation with expertise in die picking and visual inspection.
- March 2005** - Mimix enters agreement to acquire assets of Celeritek, Inc.
- June 2005** - Mimix completes acquisition of Celeritek.

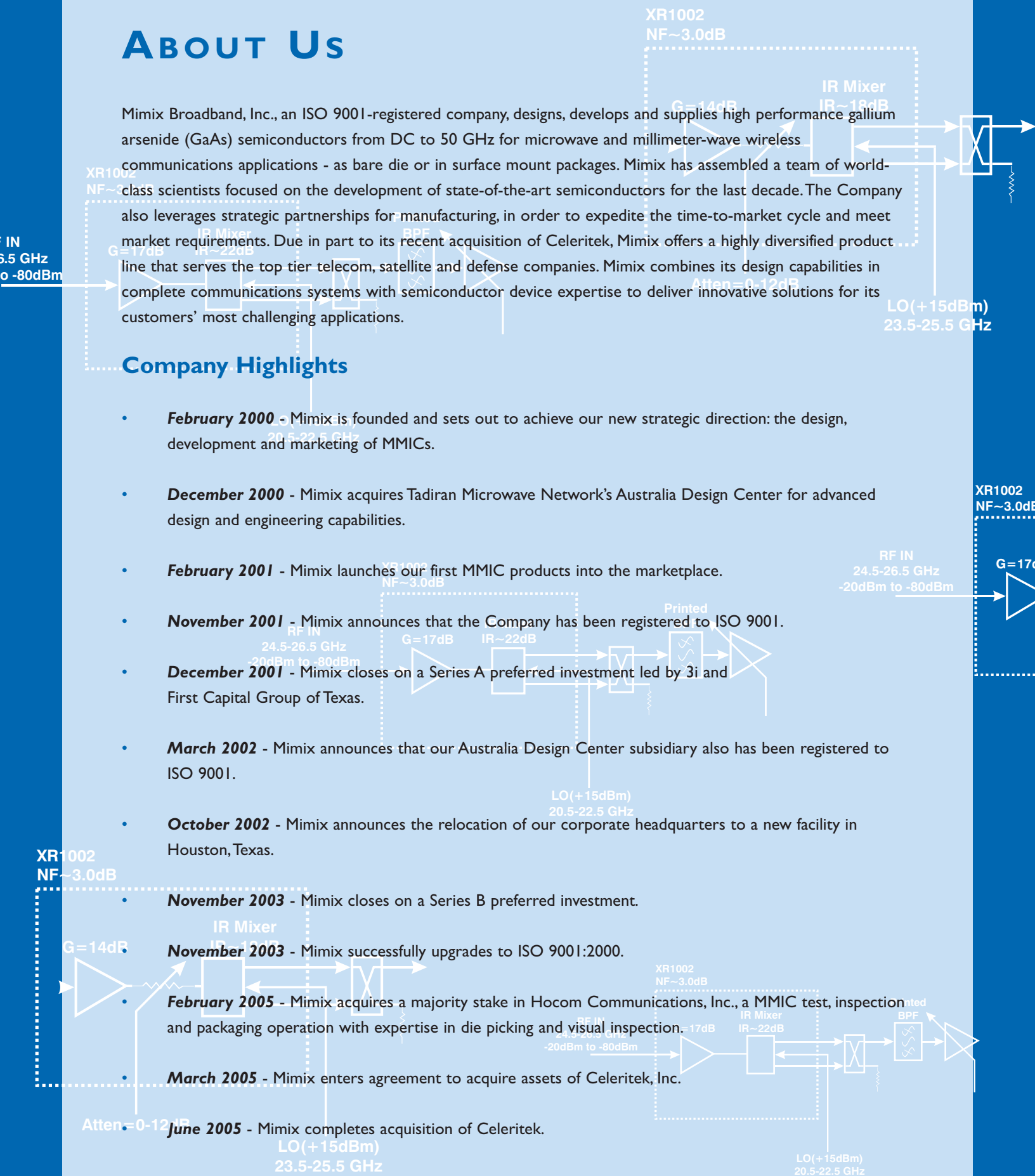
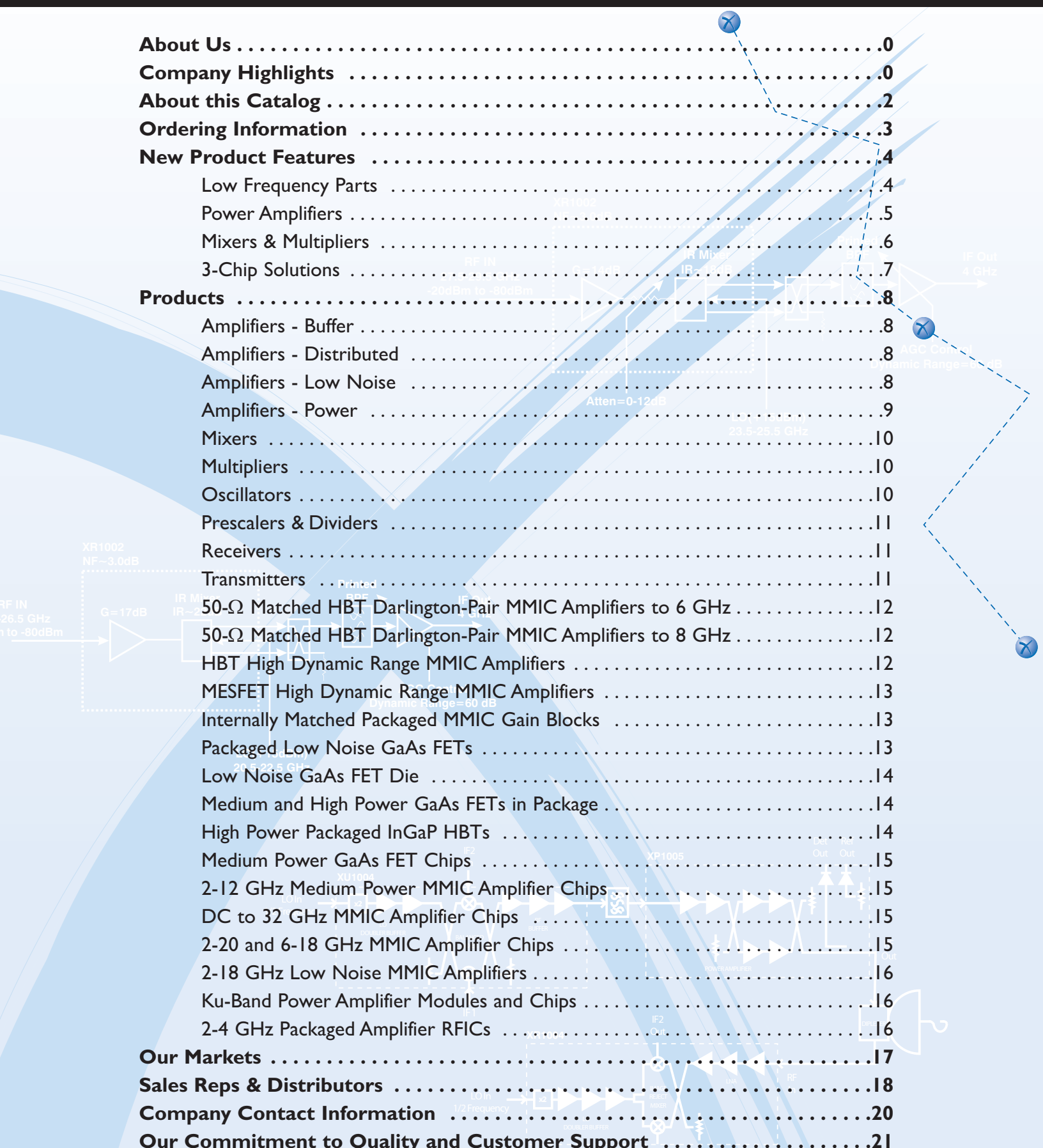


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ABOUT THIS CATALOG

To help you select and design with Mimix Broadband's GaAs semiconductors, this catalog contains detailed product specifications.

The catalog is divided into sections:

- New Product Features
- Product Matrix
- Our Markets
- Sales Reps & Distributors
- Company Contact Information
- Our Commitment to Quality and Customer Support

The Product Matrix allows you to quickly view crucial product specifications and select products most suitable for your application.

Complete datasheets, application notes, Terms and Conditions of sales, and more can be found on our website:

www.mimixbroadband.com.

Our Product Categories

As we strive to provide extensive applications engineering support and customer service, the product development categories for our MMIC devices should help design engineers understand our nomenclature.

■ **Production Devices:** Devices produced in high volume with extensive test results. Samples are available by request. Devices are available for delivery from stock-2 weeks ARO. If not available from stock, additional devices can be available 6-8 weeks ARO.

■ **Pre-production Devices:** These devices have been characterized from prototype wafers. Samples are generally available in small quantities by request. Production quantities can be available within 8-12 weeks, and a minimum order may apply.

Mimix is continuously designing new parts for improved performance and lower cost. From time to time, parts may be upgraded to a new part that is pin-for-pin compatible. Adequate notice and samples will be supplied to existing customers.

Mimix Broadband offers three options for packaging our MMIC orders: (1) Grip Ring for complete wafers; (2) Waffle Tray for die; and (3) Vacuum Release "Gel" Package for die. When placing orders, we are asking you to designate which packaging option is required for each order. Please make this designation on the purchase order by adding the following suffixes to the part number:

- R – Grip Ring;
- T – Waffle Tray; or
- V – Vacuum Release "Gel" Package.

For example, should you want to order a wafer of XP1005 devices, the purchase order should include the part number XP1005-R. Alternatively, if you want to order XP1005 devices packaged in a Gel Pack, then the purchase order should include the part number XP1005-V.

This new part numbering scheme increases the accuracy of packaging our orders, and ultimately results in greater customer satisfaction. Should you have any questions, please do not hesitate to contact us. We appreciate your support in helping improve our logistics!

General Company Information:

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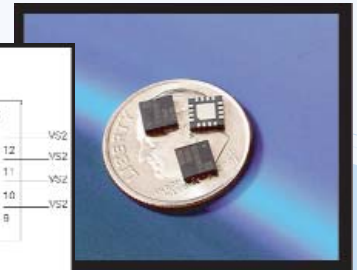
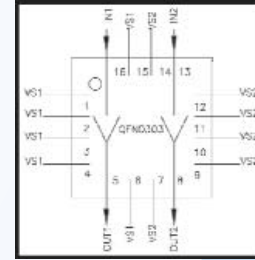
Ask for one of our Product Managers
 Tel: 281.988.4600
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Low Frequency Parts

CDQ0303

- 0.1 to 10 GHz
- Available in QFN-16 Package
- 17 dBm P1dB
- 23.5 dB Gain
- 0.26 dB Noise Figure



CELERITEK

Packaged Low Noise GaAs FETs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Package
CDQ0303-QS	0.1-10.0	17.0	23.5	32.0	0.2	50	3V	-QS

2-18 GHz Low Noise MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die	Package
CMM1100	2.0-18.0	15.0	17.5	25.0	41.0	3.5 (max)	100	5 to 8V	34	1600 x 1550	-BD	-QT (3x3mm)
CMM1110	2.0-18.0	13.0	16.0	22.0	31.0	3.0 (max)	55	5 to 8V	60	2000 x 1100	-BD	-QT (3x3mm)

Ku-Band Power Amplifiers, Modules and Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	Icc (mA)	Test Volts	Rth Deg/W	Package
CMM1118	11.0-18.0	14.0	20.0	85	5 to 7V	65	-QT (3x3mm)
CMQ1432	13.75-14.5	31.0	31.5	-	5 to 7V	-	-QH (4x4mm)

CMQ1432

- 32 dBm Saturated Output Power
- Ultra compact surface mount QFN plastic package solution (4mm x 4mm x 1.4mm)
- RoHS Compliant
- ESD Protection to 800V on die
- Enhanced thermal design based on high efficiency operation and comprehensive thermal analysis
- MTBF established for 10-year lifetime
- High efficiency peak power operation
- Analog bias current adjustment facility for low power efficiency enhancement
- Latest etch-stop pHEMT technology for superior product repeatability

CMM1118

- 20 dB Gain
- 14 dBm P1dB
- 3x3 QFN Package
- Single Power Supply
- 5-7V, 90 mA Self Bias
- On-Chip ESD Protection

CMM1100-BD

- Fully matched
- Single Supply Voltage (+5V)
- Easy assembly
- High Gain: 17.5 dB
- Low Noise Figure: 3.3 dB at 6 GHz
- Small chip size: 1.60mm x 1.55mm x 0.076mm

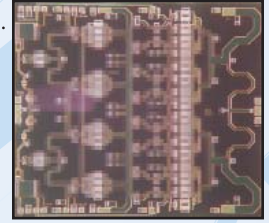
CMM1110-BD

- Unique 2-stage feedback LNA
- Fully matched at I/P and Output
- DC block integrated on-chip
- Single bias supply with bias control
- Noise Figure is 2.5 dB across the band
- 13 dBm P1dB
- 16.0 dB Linear Gain
- Chip size: 2.0mm x 1.1mm (4 mils substrate)

Power Amplifiers

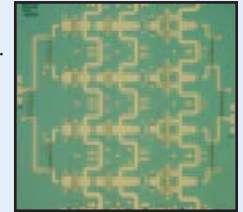
XP1006

- X-Band 10W Power Amplifier
- 21.0 dB Large Signal Gain
- +40.0 dBm Saturated Output Power
- 30% Power Added Efficiency
- On-Chip Gate Bias Circuit



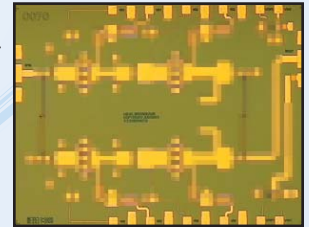
XP1015

- Excellent Saturated Output Stage
- Balanced Design Provides Good Input/Output Match
- 13.0 dB Small Signal Gain
- +31.0 dBm P1dB Compression Point



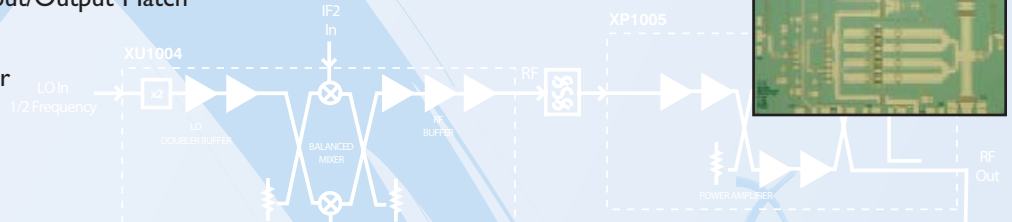
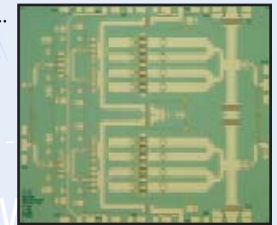
XP1017

- Balanced Design Provides Good Input/Output Match
- On-Chip Temperature Compensated Output Power Detector
- 16.0 dB Small Signal Gain
- +33.0 dBm Third Order Intercept (OIP3)



30SPA0536

- Ka-Band 4W Power Amplifier
- Balanced Design Provides Good Input/Output Match
- 21.0 dB Small Signal Gain
- +35.0 dBm Saturated Output Power



Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Power Amplifier	XP1006	8.5-11.0	21.0	+/- 0.5	+40.0 (Psat)	-	4.2 A @ 8.0
Power Amplifier (Balanced)	30SPA0536	27.0-33.0	21.0	+/- 1.0	+35.0 (Psat)	-	2.1 A @ 6.0
Power Amplifier (Detector)	XP1017	30.0-36.0	16.0	+/- 0.5	+24.0	+33.0	440 @ 4.5
Power Amplifier (Balanced)	XP1015	43.5-46.5	13.0	+/- 1.0	+31.0	IF Out	2.8 A @ 5.0

AGC Control
Dynamic Range=60 dB

LO (+15dBm)
20.5-22.5 GHz

NEW PRODUCT FEATURES

Mixers & Multipliers

XM1000

- Fundamental Balanced Mixer
- 7.0 dB Conversion Loss
- +24.0 dBm Input Third Order Intercept (IIP3)

XM1002

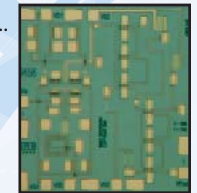
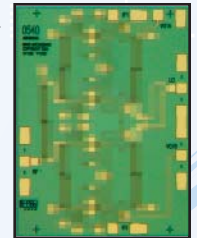
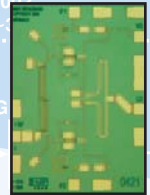
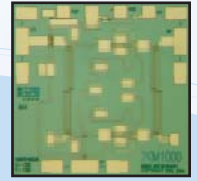
- Fundamental Image Reject Mixer
- 8.0 dB Conversion Loss
- 20.0 dB Image Rejection
- +24.0 dBm Input Third Order Intercept (IIP3)

40IRM0540

- Balanced Image Reject Mixer
- 12.0 dB Conversion Loss
- 20.0 dB Image Rejection
- 33.0 dBm LO to RF Rejection
- +27.0 dBm Input Third Order Intercept (IIP3)

XX1000

- Excellent Broadband Mixer Driver
- Doubler with Distributed Buffer Amplifier
- Excellent LO Driver for Mimix Receivers
- +15.0 dBm Output Drive



Mixers

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (GHz)	Conversion Loss (dB)	IIP3 (dBm)	LO Input Power (dBm)
Balanced	XM1000	32.0-46.0	29.0-47.0	DC-3.0	7.0	+25.0	+15.0
Image Reject	XM1002	34.0-46.0	30.0-50.0	DC-4.0	8.0	+24.0	+12.0
Balanced Image Reject	40IRM0540	37.0-46.0	33.0-50.0	DC-4.0	12.0	+27.0	+15.0

Multipliers

Description	Part Number	RF In (GHz)	RF Out (dB)	Pin (dBm)	Pout (dBm)	Bias (mA @ V)
Doubler	XX1000	7.5-22.5	15.0-45.0	+0.0	+15.0	200 @ 5.0 / 25 @ -2.0

A Star is Born...



...the Mimix 3-Chip Solution

Design a superstar microwave or millimeter-wave transceiver with the Mimix 3-Chip Solution!

Our complete line of high performing 3-Chip Solutions covers 12-46 GHz and allows you to lower cost and variability of millimeter-wave transceivers with a smaller footprint area and a simpler design.

Mimix 3-Chip Solution	Part Numbers			RX Conversion Gain (dB)	RX Noise Figure (dB)	RX IIP3 (dBm)	TX Conversion Gain (dB)	TX OIP3 (dBm)	PA Gain (dB)	PA PldB / O1P3 (dBm)
	Receiver	Transmitter	Amplifier							
38 GHz	XR1004	XU1004	XP1005	9.0	3.5	+4.0	5.0	14.0	26.0	24.0 / 32.0
26 GHz	XR1002	26TX0555	29MPA0373	14.0	3.0	+4.0	9.0	25.0	32.0	26.0 / 36.0
23 GHz	XR1005	XU1003	XP1013	8.0	2.5	-7.0	10.0	20.0	20.0	24.0 / -
18 GHz	XR1006	XU1002	XP1013	8.0	2.5	-7.0	10.0	20.0	20.0	24.0 / -
13 / 15 GHz	14REC0607	14TX0614	15MPA0566	13.5	3.0	+3.0	9.0	17.0	20.0	27.0 / -

PRODUCTS

Our MMIC Product Matrix contains a snapshot view of our current product line. As Mimix strives to provide extensive applications engineering support and customer service, the product development categories for our MMIC devices should help design engineers understand our nomenclature.

■ Production Devices ■ Pre-production Devices

To obtain a complete datasheet of any product, please visit www.mimixbroadband.com or contact us via email at info@mimixbroadband.com to request a copy. For more information call 281.988.4600.

Amplifiers - Buffer

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Noise Figure (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Buffer Amplifier (Low Noise/Power)	XB1004 ■	16.0-30.0	20.0 / 21.0	+/- 1.0	2.2 / 3.2	+14.0 / +19.0	+24.0 / +29.0	90 @ 4.0 / 180 @ 6.0
Buffer Amplifier (QFN)	XB1004P2 ■	16.0-28.5	19.0 / 20.0	+/- 1.5	3.0 / 4.0	+12.0 / +17.0	+23.0 / +28.0	90 @ 4.0 / 180 @ 6.0
Buffer Amplifier (Low Noise/Power)	XB1006 ■	18.0-38.0	21.0	+/- 2.0	3.2 / 4.5	+9.0 / +15.0	+19.0 / +25.0	50 @ 3.5 / 100 @ 5.5
Buffer Amplifier (Low Noise/Power)	XB1005 ■	35.0-45.0	19.0 / 23.0	+/- 1.0	2.7 / 3.7	+13.0 / +16.0	+23.0 / +26.0	50 @ 3.5 / 154 @ 4.5
Buffer Amplifier (Low Noise/Power)	XB1002 ■	36.0-43.0	24.0	+/- 2.5	4.0	+14.0 / +17.0	+24.0 / +27.0	110 @ 3.0 / 220 @ 5.5


























Amplifiers - Distributed

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Noise Figure (dB)	Output P1dB (dBm)	Bias (mA @ V)
Distributed Amplifier (Gain Control)	XD1002 ■	0.05-50.0	9.0	+/- 1.5	5.0	+9.0	120 @ 8.5
Distributed Amplifier	22DSBA0423 ■	10.0-40.0	17.0	+/- 2.5	5.0	-	115 @ 5.0
Distributed Amplifier (Gain Control)	XD1001 ■	18.0-50.0	17.0	+/- 1.0	5.0	+15.0	160 @ 5.0

Amplifiers - Low Noise

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Noise Figure (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Low Noise Amplifier (Balanced/Single Supply)	XL1005 ■	5.0-20.0	13.0	+/- 2.0	2.2	+16.0	+24.0	30 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1001 ■	17.0-35.0	14.0	+/- 1.5	2.5	+4.0	+16.0	55 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1002 ■	20.0-36.0	23.0	+/- 1.5	2.6	+4.0	+16.0	85 @ 5.0
Low Noise Amplifier (Single Supply)	XL1000 ■	20.0-40.0	20.0	+/- 4.0	2.0	+8.0	+16.0	35 @ 3.0 / 50 @ 5.0
Low Noise Amplifier (QFN)	XL1000P2 ■	20.0-30.0	19.0	+/- 2.0	3.5	+5.0	-	35 @ 3.0 / 50 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1003 ■	24.0-40.0	15.0	+/- 3.5	1.7	+11.0	+19.0	65 @ 5.0
Low Noise Amplifier (Balanced/Single Supply)	XL1004 ■	35.0-45.0	18.0	+/- 2.0	2.0	+6.0	+14.0	85 @ 4.0

Amplifiers - Power

Description	Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)
Power Amplifier	XP1006 	8.5-11.0	21.0	+/- 0.5	+40.0 (Psat)	-	4.2 A @ 8.0
Power Amplifier	XP1014 	8.5-11.0	18.0	+/- 1.0	+31.0 (Psat)	-	450 @ 8.0
Power Amplifier	XP1008 	11.0-16.0	31.0	+/- 0.5	+30.0	+38.5	925 @ 5.0
Power Amplifier	15MPA0566 	11.0-19.0	20.0	+/-1.0	+27.0 (Psat)	-	380 @ 5.0
Power Amplifier	XP1009 	17.0-21.0	20.0	+/- 0.5	+29.5	+38.0	900 @ 5.0
Power Amplifier	18MPA0567 	17.0-22.0	22.0	+/-0.5	+27.0 (Psat)	-	450 @ 5.0
Power Amplifier (Detector)	XP1000 	17.0-24.0	19.0	+/- 1.0	+25.0	+36.0	430 @ 5.5
Power Amplifier	XP1013 	17.0-26.0	20.0	+/- 2.0	+24.0 (Psat)	-	320 @ 6.0
Power Amplifier (Doubler)	20DBL0629 	18.0-21.0 (fin) 36.0-42.0 (fout)	26.0	+/-0.5	+26.0 (Psat)	-	530 @ 4.5
Power Amplifier	XP1010 	21.0-24.0	19.0	+/- 0.5	+30.0	+39.0	950 @ 5.0
Power Amplifier	28MPA0304 	24.0-34.0	16.0	+/- 1.0	+24.0 (Psat)	-	320 @ 6.0
Power Amplifier	29MPA0373 	26.0-31.0	32.0	+/- 1.0	+26.0	+36.0	1.1 A @ 4.5
Power Amplifier (Detector)	XP1001 	26.0-40.0	11.0	+/- 1.0	+21.0	+31.0	430 @ 5.5
Power Amplifier	30SPA0553 	27.0-32.0	22.0	+/- 1.0	+33.0	-	1.0 A @ 6.0
Power Amplifier (Balanced)	30SPA0536 	27.0-33.0	21.0	+/- 1.0	+35.0 (Psat)	-	2.1 A @ 6.0
Power Amplifier (Detector)	XP1003 	27.0-35.0	15.0	+/- 1.0	+24.0	+34.0	440 @ 4.5
Power Amplifier	30MPA0562 	28.0-31.0	27.0	+/- 1.0	+30.0 (Psat)	-	420 @ 5.0
Power Amplifier (Detector)	XP1017 	30.0-36.0	16.0	+/- 0.5	+24.0	+33.0	440 @ 4.5
Power Amplifier (Balanced)	XP1005 	35.0-43.0	26.0	+/- 2.0	+24.0 (Psat)	-	500 @ 4.5
Power Amplifier	38MPA0547 	35.0-45.0	23.0	+/- 1.0	+25.0	+34.0	475 @ 5.0
Power Amplifier	XP1011 	36.0-40.0	21.0	+/- 0.5	+27.0	+36.0	640 @ 5.0
Power Amplifier	XP1012 	37.0-40.0	15.0	+/- 0.5	+28.0	+37.0	1080 @ 5.0
Power Amplifier (Balanced)	XP1015 	43.5-46.5	13.0	+/- 1.0	+31.0	-	2.8 A @ 5.0
Power Amplifier	XP1016 	43.5-46.5	14.0	+/- 1.0	+24.0	-	720 @ 5.0
Power Amplifier	44MPA0478 	43.5-46.5	14.0	+/- 1.0	+29.0	-	1.4 A @ 5.0

Mixers

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Frequency (GHz)	Conversion Loss (dB)	IIP3 (dBm)	LO Input Power (dBm)
Image Reject	XM1001 ■	12.0-40.0	8.0-42.0	DC-4.0	8.0	+24.0	+12.0
Image Reject	18KWR0327 ■	13.0-25.0	11.0-29.0	DC-4.0	7.0	+19.0	+16.0
Balanced	26BAM0545 ■	18.0-40.0	14.0-44.0	DC-4.0	9.0	+25.0	+12.0
Image Reject	38IRM0363 ■	32.0-42.0	15.0-23.0	DC-4.0	9.0	+14.0	+12.0
Balanced	XM1000 ■	32.0-46.0	29.0-47.0	DC-3.0	7.0	+25.0	+15.0
Image Reject	XM1002 ■	34.0-46.0	30.0-50.0	DC-4.0	8.0	+24.0	+12.0
Balanced Image Reject	40IRM0540 ■	37.0-46.0	33.0-50.0	DC-4.0	12.0	+27.0	+15.0

Multipliers

Description	Part Number	RF In (GHz)	RF Out (dB)	Pin (dBm)	Pout (dBm)	Bias (mA @ V)
Doubler	5DBL0644 ■	2.5-6.0	5.0-12.0	-3.0	+16.0	140 @ 5.0
Doubler	XX1000 ■	7.5-22.5	15.0-45.0	+0.0	+15.0	200 @ 5.0 / 25 @ -2.0
Doubler	20DBL0451 ■	8.0-12.0	16.0-24.0	+12.0	+16.0	135 @ 3.5
Doubler	12DBL0409 ■	10.0-13.0	20.0-26.0	+9.0	+15.0	70 @ 3.5
Doubler	30DBL0537 ■	14.5-17.0	29.0-34.0	+2.0	+20.0	190 @ 5.0
Doubler (QFN)	30DBL0537P2 ■	14.0-16.0	28.0-32.0	+4.0	+20.0	200 @ 5.0
Doubler	20DBL0629 ■	18.0-21.0	36.0-42.0	+0.0	+26.0	530 @ 4.5

Oscillators

Description	Part Number	Output Frequency (GHz)	Output Power (dBm)	10kHz SSB Phase Noise (dBc/Hz)	100kHz SSB Phase Noise (dBc/Hz)	Bias (mA @ V)
Integrated VCO	6OSC0460 ■	5.5-6.5	+4.5	-77	-97	20 @ -5.0
Feedback Oscillator (Self-contained)	9OSC0315 ■	5.5-8.4 (divide-by-4 out)	+4.0 (+1.0)	-56	-80	155 @ -6.0 105 @ -5.0
Integrated VCO	6OSC0461 ■	5.8-6.9	+5.0	-77	-97	20 @ -5.0
Feedback Oscillator (External Filter Required) Doubler Incl.)	9OSC0313 ■	6.0-12.0 (divide-by-4 out) (doubler out)	+6.0 (+1.0) (+3.0)	-76* (-70)	-100* (-94)	155 @ -6.0 210 @ -5.0
Integrated VCO	7OSC0462 ■	6.4-7.4	+5.0	-77	-97	20 @ -5.0
Integrated VCO	7OSC0463 ■	6.8-7.9	+4.5	-77	-97	20 @ -5.0
Integrated VCO	8OSC0464 ■	7.4-8.6	+5.0	-77	-97	20 @ -5.0
Integrated VCO (On-chip Prescaler)	14OSC0501 ■	14.2-15.2	+6.0	-	-88	110 @ +4.0
Integrated VCO (On-chip Prescaler)	15OSC0502 ■	14.7-15.7	+5.0	-	-88	110 @ +4.0

* 200 MHz tuning range

Prescalers & Dividers

Description	Part Number	RF In (GHz)	RF Out (GHz)	Pin (dBm)	Pout (dBm)	Bias (mA @ V)
Divide-by-Four	8SDV0500 ■	2.0-16.0	0.5-4.0	-20.0-0.0	+5.0	100 @ 5.0

Receivers

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Bandwidth (GHz)	Conversion Gain (dB)	Noise Figure (dB)	Image Rejection (dBc)	LO Input Power (dBm)	Bias (mA @ V)
Receiver (LO Buffer)	14REC0607 ■	11.0-17.0	8.0-20.0	DC-3.0	13.5	3.0	20.0	+3.0	150 @ 5.0
Receiver	XR1000 ■	17.0-27.0	15.0-29.0	DC-2.0	10.0	3.5	15.0	+15.0	90 @ 3.0
Receiver (LO Buffer)	XR1006 ■	18.0-25.0	7.0-11.5	DC-3.0	8.0	2.5	15.0	+2.0	250 @ 4.0
Receiver (Attenuator)	XR1002 ■	18.0-34.0	14.0-38.0	DC-4.0	2.0-14.0	3.0	25.0	+15.0	135 @ 4.5
Receiver (LO Buffer)	XR1005 ■	19.0-26.0	8.0-14.5	DC-3.0	8.0	2.5	20.0	+2.0	250 @ 4.0
Receiver (LO Buffer)	29REC0239 ■	24.0-34.0	10.5-18.5	DC-3.0	8.0	3.0	20.0	+2.0	250 @ 4.0
Receiver (LO Buffer)	26REC0603 ■	26.0-32.0	23.0-35.0	DC-3.0	12.0	-	20.0	+2.0	410 @ 5.0
Receiver (LO Buffer)	XR1004 ■	30.0-46.0	15.0-25.0	DC-4.0	9.0	3.5	18.0	+2.0	200 @ 4.0
Receiver	XR1001 ■	33.0-40.0	15.5-21.5	DC-3.0	9.0	4.0	12.0	+12.0	30 @ 3.0

Transmitters

Description	Part Number	RF Frequency (GHz)	LO Frequency (GHz)	IF Bandwidth (GHz)	Conversion Gain (dB)	LO Input Power (dBm)	Output P1dB (dBm)	Output IP3 (dBm)	Bias (mA @ V)
Transmitter (LO Buffer, IR)	14TX0614 ■	10.0-18.0	7.0-21.0	DC-3.0	9.0	+6.0	-	+17.0	350 @ 5.0 140 @ -5.0
Transmitter	XU1000 ■	17.0-27.0	15.0-29.0	DC-2.0	0.0	+12.0	+2.0	+12.0	23 @ 3.0
Transmitter (LO Buffer, IR)	XU1002 ■	18.0-25.0	7.0-11.5	DC-3.0	10.0	+2.0	+12.0	+20.0	350 @ 4.0
Transmitter (LO Buffer, GC)	26TX0555 ■	18.0-36.0	7.0-20.0	DC-4.0	9.0	+2.0	+16.0	+25.0	515 @ 5.0
Transmitter (LO Buffer, IR)	XU1003 ■	19.0-26.0	8.0-14.5	DC-3.0	10.0	+2.0	+12.0	+20.0	350 @ 4.0
Transmitter (LO Buffer, IR)	27TRX0357 ■	27.0-36.0	11.5-20.0	DC-4.0	9.0	+2.0	+13.0	+21.0	370 @ 4.0
Transmitter (Image Reject)	XU1001 ■	33.0-40.0	15.5-21.5	DC-3.0	8.0	+12.0	+11.0	+20.0	30 @ 3.0
Transmitter (LO Buffer)	XU1004 ■	35.0-45.0	16.0-25.0	DC-4.0	5.0	+4.0	+6.0	+14.0	300 @ 4.0

Broadband InGaP HBT Gain Blocks & MMICs: 50-Ω Matched HBT Darlington-Pair MMIC Amplifiers to 6 GHz

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-86	SOT-89
CGB7001	0.1-6.0	14.2	20.5	28.0	3.3	35	5 to 8V	-BD	-SP	-SC
CGB7003	0.1-6.0	16.6	20.7	31.5	2.9	50	5 to 8V	-BD	-SP	-SC
CGB7004	0.1-6.0	17.0	16.0	33.5	3.6	62	5 to 8V	-BD	-	-SC
CGB7005	0.1-6.0	17.6	22.0	32.5	3.0	63	5 to 8V	-BD	-SP	-SC
CGB7006	0.1-6.0	18.0	15.2	32.0	5.3	68	5 to 8V	-BD	-	-SC
CGB7007	0.1-6.0	18.8	19.0	34.0	4.5	67	5 to 8V	-BD	-	-SC
CGB7008	0.1-6.0	18.8	21.2	33.5	3.2	64	5 to 8V	-BD	-SP	-SC
CGB7009	0.1-6.0	19.2	16.8	33.8	3.9	69	5 to 8V	-BD	-	-SC
CGB7010	0.1-6.0	20.3	21.5	35.5	3.2	75	5 to 8V	-BD	-SP	-SC
CGB7011	0.1-6.0	21.0	21.7	36.0	3.4	82	5 to 8V	-BD	-SP	-SC
CGB7012	0.1-6.0	20.3	15.7	36.0	4.3	86	5 to 8V	-BD	-	-SC

Broadband InGaP HBT Gain Blocks & MMICs: 50-Ω Matched HBT Darlington-Pair MMIC Amplifiers to 8 GHz

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-89
CGB7014	0.1-8.0	20.0	23.9	35.3	4.4	78	5 to 8V	-BD	-SC
CGB7015	0.1-8.0	21.1	24.2	36.6	4.2	90	5 to 8V	-BD	-SC
CGB7016	0.1-8.0	17.7	22.5	33.5	4.1	63	5 to 8V	-BD	-SC
CGB7017	0.1-8.0	18.2	23.1	33.8	3.3	70	5 to 8V	-BD	-SC

Broadband InGaP HBT Gain Blocks & MMICs: HBT High Dynamic Range MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-89
CGB7289 (@ 2140 MHz)	0.1-2.5	23.7	13.3	41.0	5.5	115	5 to 8V	-BD	-SC
CGB7389 (@ 2450 MHz)	0.1-2.7	23.5	13.0	40.5	4.5	115	5 to 8V	-BD	-SC

MESFET High Dynamic Range MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Bare Die	SOT-89	3x3 LGA
CMM6001-SC	0.6-3.0	20.5	12.5	37.0	2.8	75	3 to 5V	-BD	-SC	-
CMM6003-SC	0.05-0.9	22.0	17.0	41.0	1.9	150	3 to 5V	-BD	-SC	-
CMM6004-SC	0.3-3.0	23.0	14.5	43.0	2.1	150	3 to 5V	-BD	-SC	-
CMM6004-AH	0.3-6.0	23.0	18.5	43.0	1.7	150	3 to 5V	-BD	-	-AH

Internally Matched Packaged MMIC Gain Blocks

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	I/P & O/P R/L	Test Volts	Bare Die	Package
CMM2305	0.8-2.7	17.0	20	27	3.5	85	10/10	3 to 6V	-	-AR
CMM2306	1.5-2.5	17.0	20	26	3.1	75	8/8	3 to 6V	-	-AJ
CMM2308	1.0-2.7	17.0	19	27	2.2	75	8/10	3 to 6V	-	-AJ

Packaged Low Noise GaAs FETs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Package
CFB0101	0.1-15.0	18.5	21.5	28.0	1.0	40	6V	-B
CFB0103	0.1-15.0	19.0	22.0	29.0	0.7	15	3V	-B
CFB0301	0.1-15.0	21.0	17.0	34.0	0.8	70	4V	-B
CFB0303	0.1-15.0	21.0	20.0	34.0	0.5	75	4V	-B
CFK0301	0.1-15.0	19.5	23.5	31.0	0.8	70	4V	-AK
CFS0303-SB	0.1-10.0	17.0	22.4	32.0	0.2	60	3V	-SB
CDQ0303-QS	0.1-10.0	17.0	23.5	32.0	0.2	50	3V	-QS

Low Noise GaAs FET Die (All Measurements at 12 GHz)

Model No.	Freq (GHz)	P1dB (dBm)	MSG (dB)	OIP3 (dBm)	NF (dB)	Idss (mA)	Test Volts	Rth Deg/W	Die Size (um)	Gate W/L (um)
CF001-1	1.0-32.0	19.0	17.5	29.0	1.6	60	3 to 6V	150	400x250	300/0.3
CF001-03	1.0-40.0	17.0	18.5	27.0	0.8	60	3 to 6V	150	400x250	300/0.3
CF003-01	1.0-26.0	22.0	15.0	32.0	1.8	180	3 to 6V	80	720x250	600/0.3
CF003-03	1.0-34.0	20.0	15.5	30.0	1.0	180	3 to 6V	80	720x250	600/0.3
CF004-01	1.0-40.0	15.0	15.0	25.0	2.2	30	3 to 6V	300	230x250	150/0.3
CF004-03	1.0-45.0	13.0	16.0	23.0	1.5	30	3 to 6V	300	230x250	150/0.3
CF007-01	1.0-20.0	16.0	18.9	27.0	2.2	60	3 to 5.5V	150	420x250	Dual Gate 300/0.5

Medium and High Power GaAs FETs in Package

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Padded Eff %	Icc (mA)	Test Volts	Rth Deg/W	Package
CFC0301 (@ 12 GHz)	0.1-18.0	23.0	10.0	34.0	2.6	-	80	6V	85	-C (Hermetic)
CFK2062-P1	0.8-1.0	30.0	20.0	40.0	-	42	400	8V	12	-AK
CFK2062-P3	1.8-2.2	31.0	13.5	41.0	-	40	400	8V	12	-AK
CFK2062-P5	2.3-2.5	30.5	12.0	41.0	-	40	400	8V	12	-AK
CFK2162-P1	0.8-1.0	34.0	20.0	44.0	-	43	800	8V	9	-AK
CFK2162-P3	1.8-2.2	34.0	14.0	44.0	-	43	800	8V	9	-AK
CFK2162-P5	2.3-2.5	33.5	12.0	44.0	-	43	800	8V	9	-AK
CFH2162-P1	0.8-1.0	36.0	19.0	47.0	-	43	1300	8V	7.5	-H
CFH2162-P3	1.8-2.2	36.0	13.0	47.0	-	43	1300	8V	7.5	-H
CFH2162-P5	2.3-2.5	35.5	10.0	46.0	-	42	1300	8V	7.5	-H

High Power Packaged InGaP HBTs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	Padded Eff %	Icc (mA)	Test Volts	Rth Deg/W	Package
CHV2710	1.0-4.0	37.0	13.0	51.0	41	450	8 to 12 V	5	PSOP8
CHV2712 (Dual Pair)	1.0-4.0	>37.0	13.0	>51.0	41	450 x 2	8 to 12 V	3.5	PSOP16

Medium Power GaAs FET Chips

Model No.	Freq (GHz)	P1dB (dBm)	MSG (dB)	OIP3 (dBm)	Idss (mA)	Test Volts	Rth Deg/W	Die Size (um)	Gate W/L (um)
CF003-01	1.0-26.0	22.0	15.0	32.0	180	6V	80	720 x 250	600/≤0.3
CF005-01	1.0-24.0	25.0	15.5	35.0	310	6V	50	470 x 320	1200/≤0.5
CF010-01	1.0-22.0	28.0	15.0	38.0	700	6V	25	850 x 320	2400/≤0.5
CF015-11	1.0-24.0	25.0	16.0	33.0	310	6V	40	1350 x 250	1200/≤0.3

2-12 GHz Medium Power MMIC Amplifier Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die
CMM-2	2.0-12.0	10.0	13.0	20.0	5.5	35	5 to 8V	60	1000 x 750	-BD
CMM-5	2.0-6.0	18.0	16.5	28.0	5.5	100	5 to 8V	60	1000 x 1020	-BD
CMM-9	2.0-8.0	17.0	15.0	27.0	5.5	80	5 to 8V	80	1000 x 900	-BD
CMM1200	2.0-6.0	15.5	17.5	25.5	3.5	100	5 to 8V	34	1600 x 1550	-BD

DC to 32 GHz MMIC Amplifier Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die
CMM2030	.0003-32.0	18.0	12.0	25.0	35.0	4.5	100	5 to 8V	60	2420 x 1150	-BD
CMM3030	.0003-30.0	23.0	9.0	30.0	40.0	4.5	275	5 to 8V	18	2420 x 1150	-BD

2-20 and 6-18 GHz MMIC Amplifier Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die
CMM3020	.0003-20.0	23.0	10.0	31.0	40.0	6.5	250	5 to 8V	18	2420 x 1150	-BD
CMM0014 @ 18 GHz	2.0-22.0	24.0	11.0	33.5	42.3	7.0	295	5 to 8V	25	2300 x 1100	-BD
CMM0015 @ 18 GHz	2.0-22.0	27.0	10.5	35.0	44.0	7.5	350	8 to 12V	18	2320 x 1300	-BD
CMM0016 @ 18 GHz	2.0-20.0	29.0	10.0	37.0	47.0	7.5	690	8 to 12V	15.7	2320 x 1300	-BD
CMM0618	6.0-18.0	29.0	10.0	36.0	45.0	7.5	775	5 to 8V	15	2815 x 1980	-BD

2-18 GHz Low Noise MMIC Amplifiers

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	OIP3 (dBm)	OIP2 (dBm)	NF (dB)	Icc (mA)	Test Volts	Rth Deg/W	Die Size (um)	Bare Die	Package
CMM4000	2.0-20.0	19.0	8.0	29.5	39.0	3.5	115	5 to 8V	82	1890 x 1000	-BD	-
CMM1100	2.0-18.0	15.0	17.5	25.0	41.0	3.5 (max)	100	5 to 8V	34	1600 x 1550	-BD	-QT (3x3mm)
CMM1110	2.0-18.0	13.0	16.0	22.0	31.0	3.0 (max)	55	5 to 8V	60	2000 x 1100	-BD	-QT (3x3mm)

Ku-Band Power Amplifier Modules and Chips

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	Icc (mA)	Test Volts	Rth Deg/W	Package
CMM1118	11.0-18.0	14.0	20.0	85	5 to 7V	65	-QT (3x3mm)
CMM0511	5.0-11.0	14.0	20.0	-	5 to 7V	-	-QT (3x3mm)
CMM1331	12.7-13.5	31.0	30.0	800	5 to 7V	12	-SM (6x6mm)
CMM1431	13.7-14.5	31.5	30.0	840	5 to 7V	12	-SM (6x6mm)
CMQ1432	13.75-14.5	31.0	31.5	-	5 to 7V	-	-QH (4x4mm)
CMM1631	14.5-19.7	30.5	29.0	800	5 to 7V	12	-SM (6x6mm)
CMM1434	13.7-14.5	34.0	29.0	1800	5 to 7V	7	-SM (6x6mm)

2-4 GHz Packaged Amplifier RFICs

Model No.	Freq (GHz)	P1dB (dBm)	Gain (dB)	Vdd (Volts)	Package
CMM2321-AK	2.3-2.5	30.0	20.0	5.0	PSOP-8
CMM3566-LC	3.4-3.5	29.0	28.0	7.0	4x4mm LCC

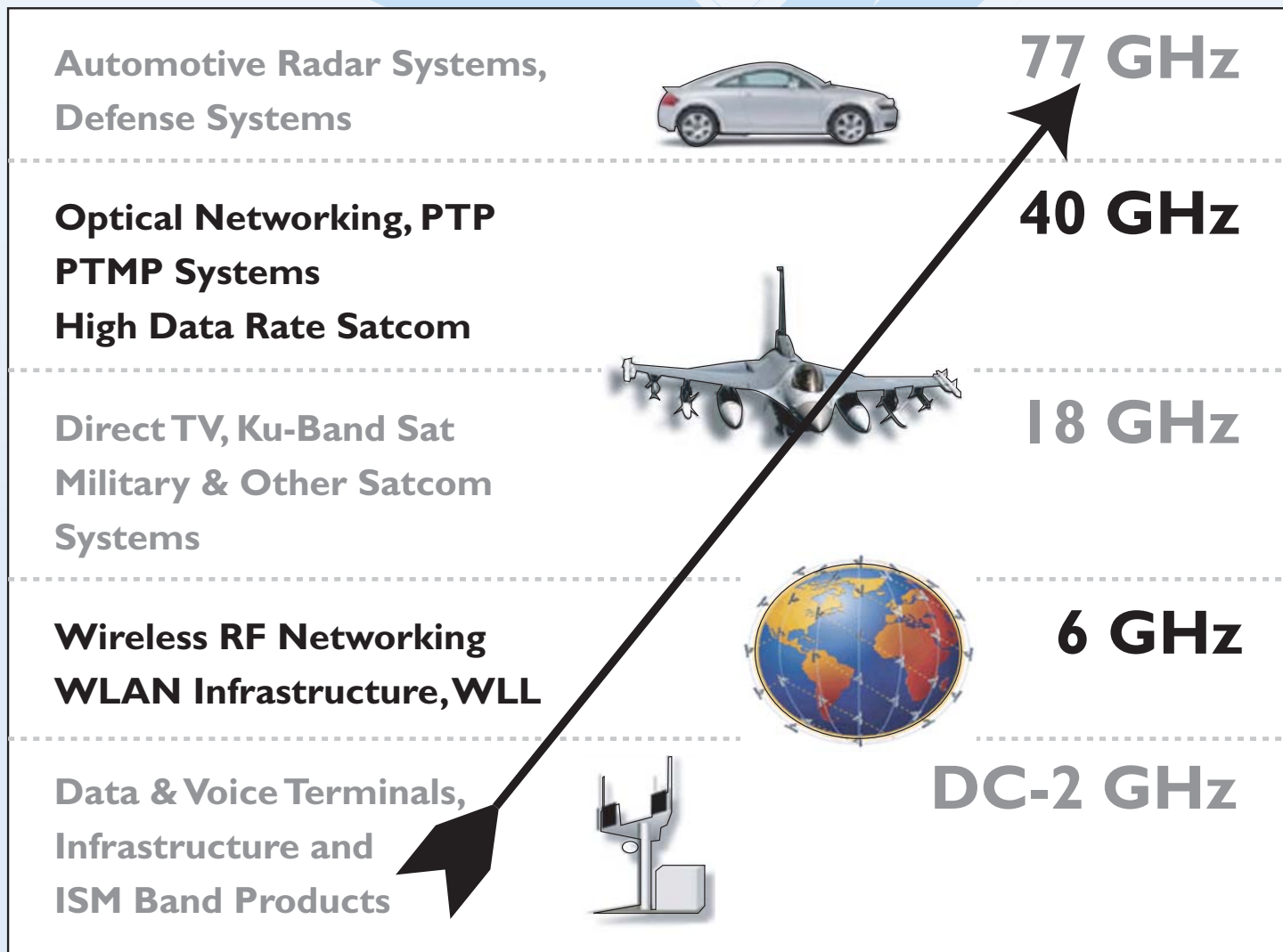
Mimix targets the microwave and millimeter-wave markets, including digital microwave radio, cellular and wireless infrastructure, military and satellite communications applications.

As networks continue to demand higher bandwidth, frequencies must move up to the microwave and millimeter-wave range in order to achieve these bandwidths. This development is true for a variety of wireless and optical systems. Mimix is positioned to meet the market's requirements by providing higher frequency microwave and millimeter-wave devices used in these applications. Our designers have focused on the development of state-of-the-art GaAs semiconductors for the last decade.

We support these markets with innovative technology. Our semiconductor devices offer more power over a broader frequency range, place more functionality on a single chip, and achieve best in class low noise performance. We provide complete semiconductor solutions, such as entire power amplifier modules, 3-chip solutions and low cost packaging.

In addition to offering standard catalog products, we frequently develop custom designs according to our customers' requirements. Mimix is continuously developing new products, so please do not hesitate to inquire about a product that you do not find in this catalog, as we may already have such a product in development.

Mimix Meets Market Requirements With High Frequency Devices



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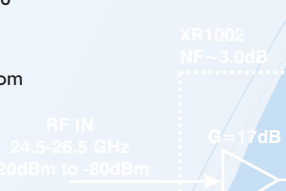
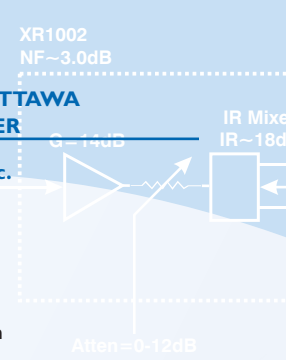
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NORWAY

Datamatik as

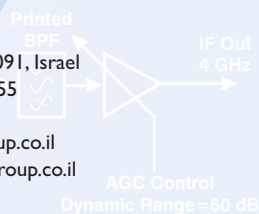
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LO (+15dBm)
20.5-22.5 GHz

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General Company Information:

Julie Teinert

Vice President Marketing

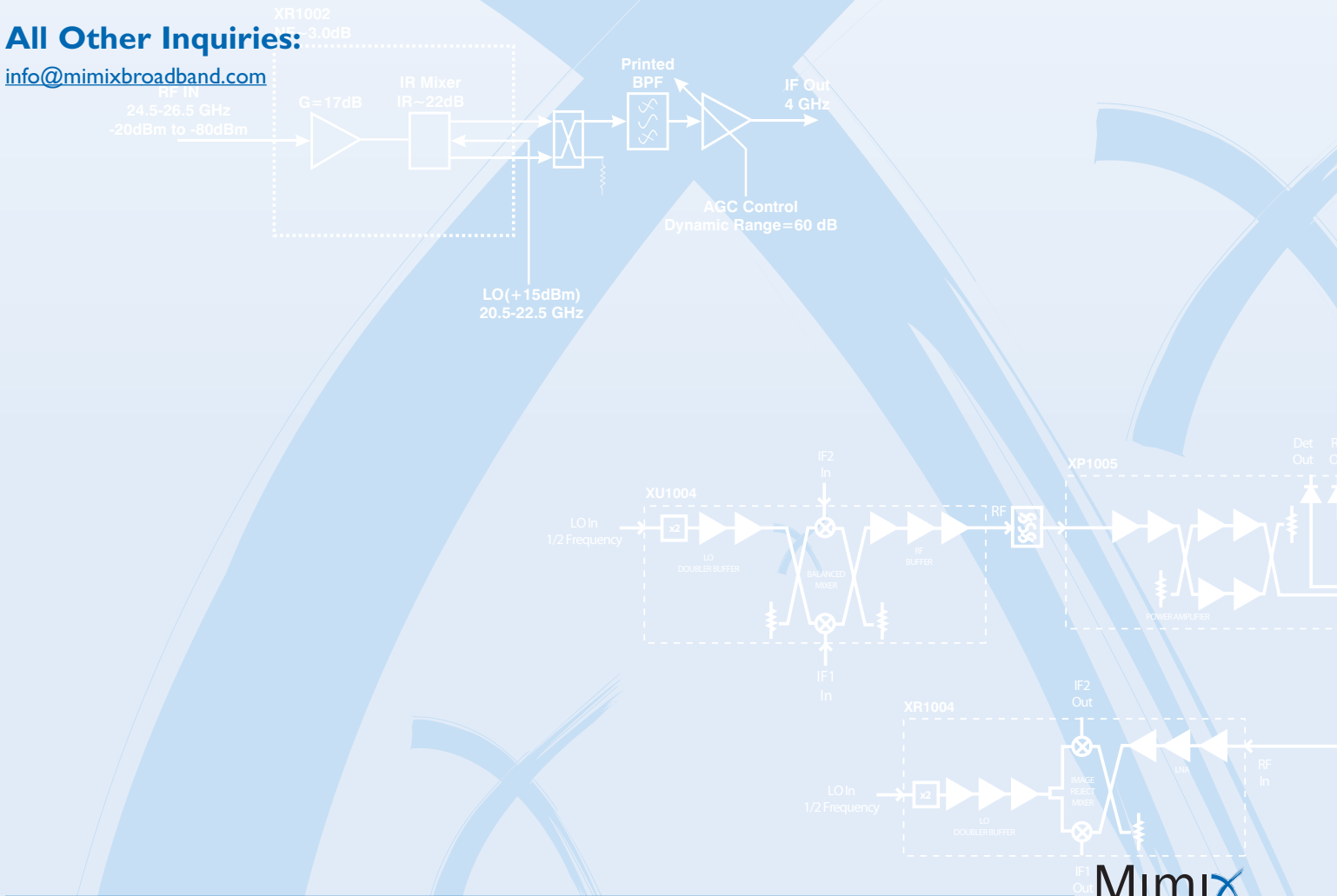
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OUR COMMITMENT TO QUALITY AND CUSTOMER SUPPORT

Mimix Broadband, Inc. announced in November 2001 that the Company had been registered to ISO 9001. As part of the industry's total quality management standard, this certification demonstrates our commitment to quality. Furthermore, the Company regards total quality management as a primary and continuous initiative and business practice.

Quality Assurance

At Mimix, we've integrated quality into all of our business processes. Beginning with our ISO 9001-registered Quality Management System, which includes our comprehensive design and manufacturing processes, and extending throughout the company, each employee is empowered to continually identify and implement improvements enhancing product quality and customer satisfaction. We extend this same philosophy to our subcontractors, including our ISO 9001-registered foundries and our packaging providers.

Quality Assurance in Design

Mimix's design methodology takes advantage of our world-class scientists' expertise in creating products that make maximum utilization of today's technology and tomorrow's technological advances. The products of this expertise are devices capable of spanning wide performance windows as well as targeted high performance applications.

The design process uses a Plan Do Check Act (PDCA) cycle to drive designs from prototyping to their intended performance targets. The engineering team improves reproducibility of the design during fabrication to reduce variability and to improve yields, reliability, and on-time delivery. The integrity of the design evaluation and device screening processes assure that our published product specifications accurately represent the true device characteristics.

Quality Assurance in Production

While the devices we fabricate are designed to provide greater test yields and increased manufacturability, our post-fabrication processing of devices allows for even greater assurance that delivered products give 100% satisfaction to the customer.

Some of the features of this processing are:

- Automated handling for every phase of fabrication, testing, inspection, and packaging;
- Laser scribe & break process for MIL-STD-883 Method 2010 visual compliance;
- 100% testing and inspection of devices with traceability from wafer to device; and
- Tailored processes to meet customer-specified requirements.

Quality Assurance in Customer Support

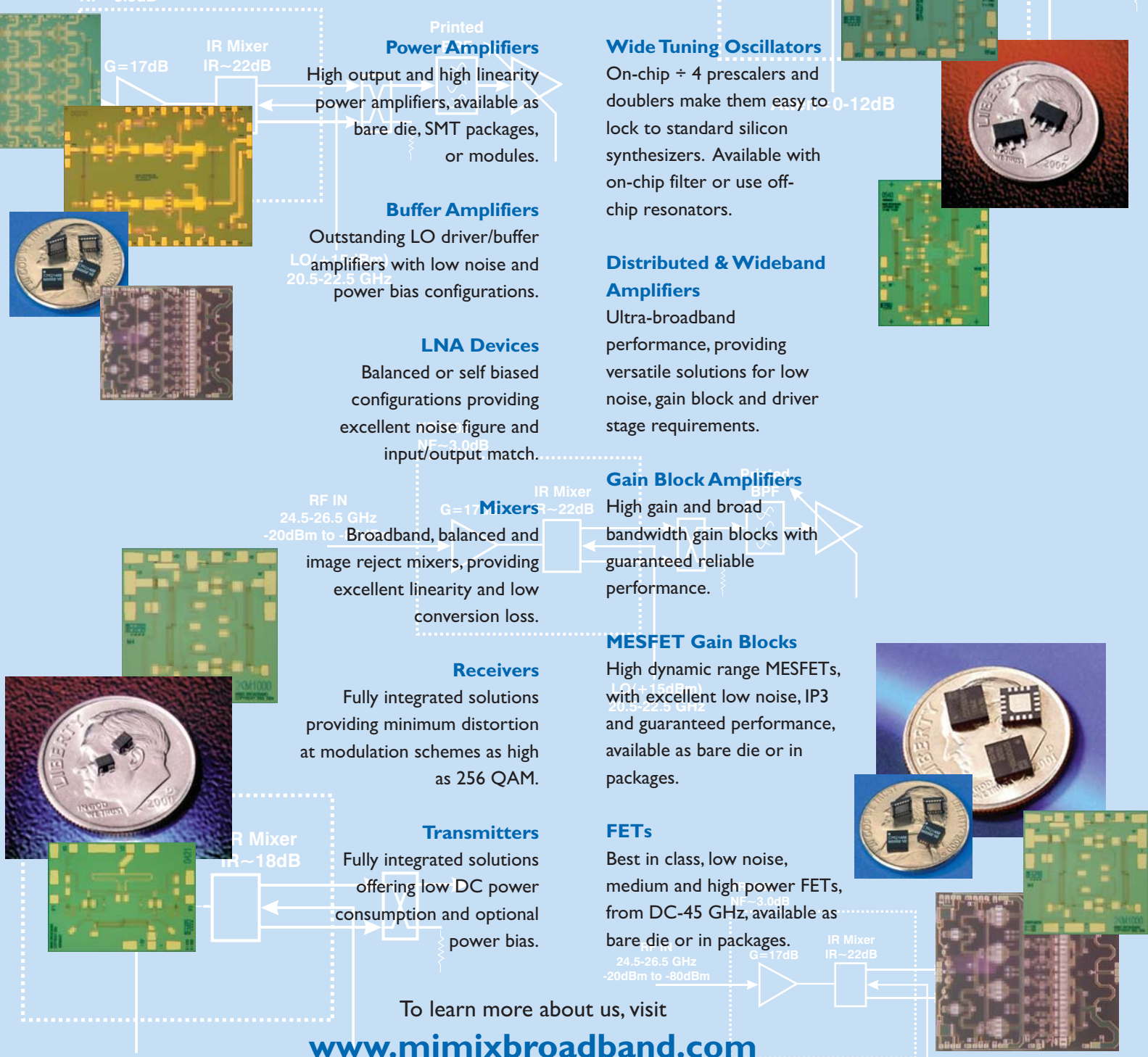
Mimix utilizes systems engineering expertise for unsurpassed customer support in applications engineering. Our Customer Liaison group strives to develop unique customer-supplier relationships that enable efficient communication between Mimix and our customers. These relationships allow us to be responsive to customer requests for support or other needs, so that our customers know they remain our number one priority.



Mimix Broadband, Inc.

Mimix Broadband designs, develops and supplies high performance GaAs semiconductors from DC to 50 GHz.

Providing optimal semiconductor solutions worldwide.



Printed Power Amplifiers

High output and high linearity power amplifiers, available as bare die, SMT packages, or modules.

Buffer Amplifiers

Outstanding LO driver/buffer amplifiers with low noise and power bias configurations.

LNA Devices

Balanced or self biased configurations providing excellent noise figure and input/output match.

Mixers

Broadband, balanced and image reject mixers, providing excellent linearity and low conversion loss.

Receivers

Fully integrated solutions providing minimum distortion at modulation schemes as high as 256 QAM.

Transmitters

Fully integrated solutions offering low DC power consumption and optional power bias.

Wide Tuning Oscillators

On-chip + 4 prescalers and doublers make them easy to lock to standard silicon synthesizers. Available with on-chip filter or use off-chip resonators.

Distributed & Wideband Amplifiers

Ultra-broadband performance, providing versatile solutions for low noise, gain block and driver stage requirements.

Gain Block Amplifiers

High gain and broad bandwidth gain blocks with guaranteed reliable performance.

MESA Gain Blocks

High dynamic range MESFETs, with excellent low noise, IP3 and guaranteed performance, available as bare die or in packages.

FETs

Best in class, low noise, medium and high power FETs, from DC-45 GHz, available as bare die or in packages.

To learn more about us, visit

www.mimixbroadband.com

Atten=0-12dB

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Devices shown are enlarged and are not actual size or to scale.

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LO (+15dBm)
20.5-22.5 GHz