

Power Amplifiers

Part Number	Frequency (GHz)	Gain (dB)	Gain Flatness (dB)	Output P1dB (dBm)	OIP3 (dBm)	Bias (mA @ V)	Package	Markets
■ XP5001-BD	2.7-3.8	20.0	+/- 0.5	+35.5	-	1.2A @ 6.0	DIE	D
■ XP5002-BD	2.7-3.8	21.0	+/- 0.5	+41.8	-	6.3A @ 7.0	DIE	D
■ XP1006-BD	8.5-11.0	21.0	+/- 0.5	+40.0 (Psat)	-	4.2A @ 8.0	DIE	D
■ XP1006-FA	8.5-11.0	21.5	+/- 0.5	+40.5 (Psat)	-	4.2A @ 8.0	-FA (Flange)	D
■ XP1014-BD	8.5-11.0	18.0	+/- 1.0	+31.0 (Psat)	-	450 @ 8.0	DIE	D
■ XP1014-SM	8.5-11.0	18.0	+/- 1.0	+31.0 (Psat)	-	450 @ 8.0	-SM (6x6 mm)	D
■ XP1057-BD	13.5-16.0	17.0	+/- 1.0	+39.0	+48.0	3.7A @ 7.5	DIE	S / P / D
■ XP1058-BD	14.5-16.0	27.0	+/- 1.0	+36.0	+44.0	2.2A @ 8.0	DIE	S / P / D
■ XP1072-BD	34.0-37.0	22.0	+/- 2.0	+35.0 (Psat)	-	2.4A @ 5.5	DIE	S / D
■ XP1073-BD	34.0-37.0	22.0	+/- 2.0	+37.0 (Psat)	-	4.8A @ 5.5	DIE	S / D

Attenuators

Part Number	Frequency (GHz)	Attn Range (dB)	Step Size (dB)	Insertion Loss (dB)	Return Loss (dB)	Bias (mA @ V)	Package	Markets
■ XA1000-BD	DC-18.0	28.0	0.9	3.0-7.0	15.0	9 @ -7.5	DIE	D
■ XA1000-QH	DC-18.0	28.0	0.9	3.0-7.0	15.0	9 @ -7.5	-QH (4x4 mm)	D

Phase Shifters

Part Number	Frequency (GHz)	Step Size (deg)	Insertion Loss (dB)	Return Loss (dB)	Input P1dB (dBm)	Bias (mA @ V)	Package	Markets
■ XS1001-BD	2.5-4.0	5.625	6.0	15.0	+26.0	9 @ -10.0	DIE	D
■ XS1001-QK	2.5-4.0	5.625	6.0	12.0	+26.0	9 @ -10.0	-QK (7x7 mm)	D
■ XS1000-BD	7.0-13.0	5.625	6.0	15.0	+25.0	9 @ -7.5	DIE	D
■ XS1000-QK	7.0-13.0	5.625	6.5	12.0	+25.0	9 @ -7.5	-QK (7x7 mm)	D

Core Chips

Part Number	Frequency (GHz)	Gain (Rx/Tx) (dB)	Input/Output (Rx/Tx) P1dB (dB)	IIP3 (dBm)	Rx NF (dB)	Attn Step / Range (deg)	6-Bit Phase Step Size (deg)	Bias (mA @ V)	Package	Markets
■ XZ1001-BD	2.5-4.0	26.0/26.0	+10.0/+29.0	-3.0	2.2	0.45/28.0	5.625	200 @ 5 / 20 @ -10	DIE	D
■ XZ1002-BD	8.5-11.0	21.0/19.0	-4.0/+23.5	+8.0 (Rx)	5.2	0.9/28.0	5.625	280 @ 4 / 35 @ -5	DIE	D

Core Chip Technology - The Next Generation of Integration (see reverse side for more...)

■ = Final ■ = Preliminary ■ = Advanced | S=SatCom P=Point-To-Point D=Defense



Power



Control

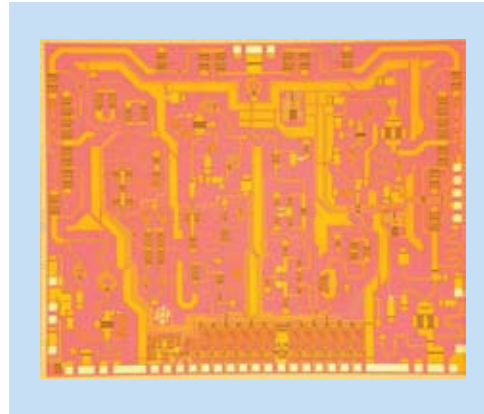
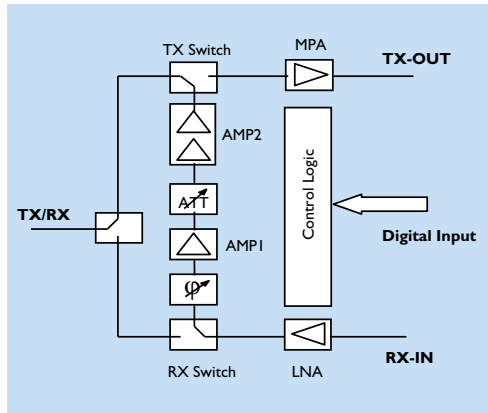


Integration

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CORE CHIP TECHNOLOGY - THE NEXT GENERATION OF INTEGRATION

Mimix Asia's highly integrated, unique core chips provide a high degree of functionality and greatly simplify the design task for T/R modules. The core chip integrates a phase shifter, attenuator, T/R switches, LNA, Power Amplifier, Digital Logic Control and on-chip bias circuitry all onto a single GaAs MMIC. The major benefits of this technology include a simpler design task, fewer components, smaller board space, lower cost, high reliability and better control performance. The core chip is available at S-Band (XZ1001-BD) and X-Band (XZ1002-BD) and is ideally suited to phased array radar applications.



ABOUT THE COMPANY

Mimix Asia, a subsidiary of Mimix Broadband, Inc., designs and develops monolithic microwave integrated circuits (MMICs) for microwave and millimeter-wave applications. Mimix Asia's unique product offering includes multifunction and integrated chips, high power amplifiers, attenuators and phase shifters and provides complete chipset solutions for military and commercial radar, and satellite communications systems. Mimix Asia also tests, inspects and packages products and provides strategic support to Mimix Broadband for production, supply chain management, order processing and fulfillment.

Quality Assurance

Mimix Asia integrates quality into all 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 that enhance product quality and customer satisfaction. We extend this same philosophy to our subcontractors and suppliers, including our ISO 9001-registered foundries and our packaging providers.

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