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Introduces the Next Generation

AMPLIFIERS

When compromise in Performance and Reliability is not an option

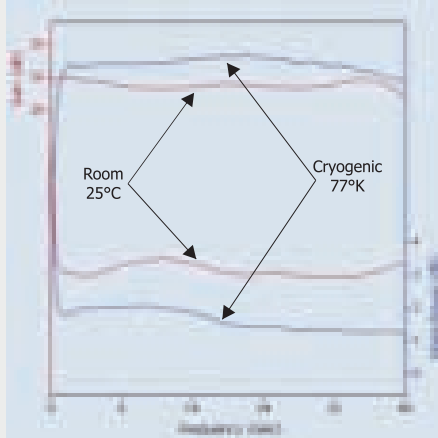
5 KHz to 60 GHz
Benchmarking specs
for tomorrow's systems



(Actual Size)

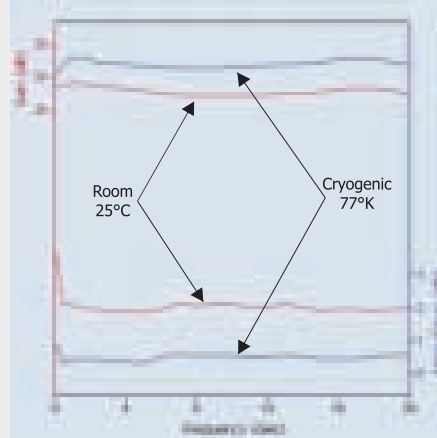
- Widest Bandwidth
- Lowest Noise Figures
- Cryogenic Operation
- Excellent Group Delay
- Unconditionally Stable
- High Dynamic Range
- Drop In Package
- RoHS Compliant

Model: BZP140UD1 0.1 - 40 GHz



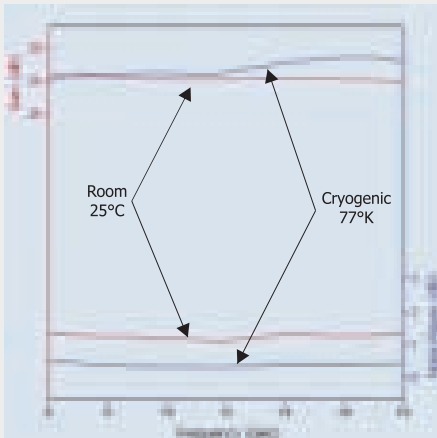
Typical Group Delay ±20pS

Model: BZP120UC1 0.1 - 20 GHz



Typical Group Delay ±10pS

Model: BZ0618LC1 6 - 18 GHz



Typical Group Delay ±10pS

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Model	Freq (GHz)	Noise Fig* (dB Max)	Gain (dB Min)	Gain Var. (±dB Max)	Pout 1dB (dBm Min)	VSWR In/Out	Model	Freq (GHz)	Noise Fig* (dB Max)	Gain (dB Min)	Gain Var. (±dB Max)	Pout 1dB (dBm Min)	VSWR In/Out
Ultra Wideband Low Noise Amplifiers													
BZP140UD1	0.1 - 40	4.0	25	1.5	6	2.7:1/2.5:1	BZP114UB1	0.1 - 14	1.9	23	1.2	8	2.0:1/2.3:1
BZP140UD2	0.1 - 40	4.5	24	2.0	8	2.5:1/2.5:1	BZP112UB1	0.1 - 12	1.7	24	1.2	8	2.0:1/2.0:1
BZP130UD1	0.1 - 30	3.5	27	1.5	8	2.0:1/2.0:1	BZP110UB1	0.1 - 10	1.5	25	1.0	8	2.0:1/2.0:1
BZP126UD1	0.1 - 26	3.3	27	1.5	10	2.0:1/2.0:1	BZP108UB1	0.1 - 8	1.4	25	1.0	8	2.0:1/2.0:1
BZP120UD1	0.1 - 20	2.2	31	1.7	8	2.3:1/2.3:1	BZP106UB1	0.1 - 6	1.0	27	1.0	10	2.0:1/2.0:1
BZP120UC1	0.1 - 20	2.3	26	1.5	5	2.3:1/2.3:1	BZP104UB1	0.1 - 4	0.9	28	1.0	10	2.0:1/2.0:1
BZP118UD1	0.1 - 18	2.0	32	1.3	8	2.0:1/2.0:1	BZP102UB1	0.1 - 2	0.7	28	1.0	10	2.0:1/2.0:1
BZP118UC1	0.1 - 18	2.1	27	1.0	5	2.0:1/2.0:1	BZP102UB2	0.1 - 2	1.0	26	1.0	10	2.0:1/2.0:1

Model	Freq (GHz)	Noise Fig* (dB Max)	Gain (dB Min)	Gain Var. (±dB Max)	Pout 1dB (dBm Min)	VSWR In/Out	Model	Freq (GHz)	Noise Fig* (dB Max)	Gain (dB Min)	Gain Var. (±dB Max)	Pout 1dB (dBm Min)	VSWR In/Out
Wideband Low Noise Amplifiers													
BZ4060LD1	40 - 60	6.0	20	2.5	5	2.7:1/2.7:1	BZ1822LD1	18 - 22	1.4	30	1.0	7	2.0:1/2.0:1
BZ1230LD1	12 - 30	3.0	27	1.5	8	2.0:1/2.0:1	BZ0618LC1	6 - 18	1.4	27	1.5	5	2.0:1/2.0:1
BZ1840LD1	18 - 40	2.7	25	2.0	8	2.3:1/2.3:1	BZ0818LC1	8 - 18	1.2	27	1.2	8	2.0:1/2.0:1
BZ2640LD1	26 - 40	2.5	25	1.8	8	2.0:1/2.0:1	BZ1218LC1	12 - 18	1.2	28	1.0	8	1.5:1/1.5:1
BZ1428LD1	14 - 28	2.5	28	1.5	8	2.0:1/2.0:1	BZ0612LC1	6 - 12	0.9	30	1.3	5	2.0:1/2.0:1
BZ1226LD1	12 - 26	2.3	30	1.6	8	2.0:1/2.0:1	BZ0208LB1	2 - 8	1.0	22	1.5	5	2.0:1/2.0:1

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Wideband Medium Power Amplifiers													
BZP530MD1	0.5 - 30	4.8	26	1.8	13	2.5:1/2.5:1	BZ0218MD1	2 - 18	4.3	30	2.0	23	2.0:1/2.3:1
BZP526MD1	0.5 - 26	4.5	28	1.5	15	2.5:1/2.5:1	BZ0618MD1	6 - 18	3.7	30	1.8	23	2.0:1/2.3:1
BZP520MD1	0.5 - 20	4.5	30	2.5	20	2.3:1/2.3:1	BZ1218MD1	12 - 18	3.5	30	1.0	23	2.0:1/2.3:1
BZP518MD1	0.5 - 18	4.3	30	2.5	22	2.0:1/2.0:1	BZ0212MD1	2 - 12	3.3	30	1.5	23	2.0:1/2.3:1
BZP518MD2	0.5 - 18	3.7	30	2.5	20	2.0:1/2.0:1	BZ0212MC1	2 - 12	2.0	32	1.3	17	2.0:1/2.0:1
BZP518MC1	0.5 - 18	3.5	28	1.7	17	2.0:1/2.0:1	BZ0412MD1	4 - 12	3.8	30	1.8	24	2.0:1/2.0:1
BZP518MB1	0.5 - 18	3.5	17	1.5	17	2.3:1/2.3:1	BZ0510MD1	5 - 10	3.6	32	1.5	25	2.0:1/2.0:1
BZP512MC1	0.5 - 12	2.0	32	1.5	15	2.0:1/2.3:1	BZ0408MD1	4 - 8	3.5	33	1.5	26	2.0:1/2.0:1

Model	Freq (GHz)	Noise Fig* (dB Max)	Gain (dB Min)	Gain Var. (±dB Max)	Pout 1dB (dBm Min)	VSWR In/Out	Model	Freq (GHz)	Noise Fig* (dB Max)	Gain (dB Min)	Gain Var. (±dB Max)	Pout 1dB (dBm Min)	VSWR In/Out
Wideband High Power Amplifiers													
BZ0218PA1	2 - 18	9	10	2	25	2.5:1/2.5:1	BZ0618PA1	6 - 18	10	13	2	25	2.5:1/2.5:1
BZ0218PA2	2 - 18	9.5	9	2	29	2.5:1/2.5:1	BZ0618PD1	6 - 18	6	30	2.3	29	2.5:1/2.5:1
BZ0218PD1	2 - 18	6	25	2.3	25	2.5:1/2.5:1	BZ0618PD2	6 - 18	6.5	30	2.5	32	2.5:1/2.5:1
BZ0218PD2	2 - 18	6.5	24	2.5	29	2.5:1/2.5:1	BZ0618PD3	6 - 18	8	30	2.7	35	2.5:1/2.5:1

Model	Freq (GHz)	Noise Temp* (°K)	Gain (dB Min)	Gain Var. (±dB Max)	Volt. Cur (V, mA)	VSWR In/Out	Model	Freq (GHz)	Noise Temp* (°K)	Gain (dB Min)	Gain Var. (±dB Max)	Volt. Cur (V, mA)	VSWR In/Out
Ultra Wideband Fiber Optics Amplifiers													
BZ0020FB1	0.0005 - 20	5	17	1.8	13	2.5:1/2.5:1	BZ0026FB1	0.0005 - 26	6.5	16	2.0	8	2.5:1/2.5:1
BZ0020FB2	0.0005 - 20	6	16	2.0	15	2.5:1/2.5:1	BZ0026FB2	0.0005 - 26	7	15	2.0	12	2.5:1/2.5:1

Model	Freq (GHz)	Noise Temp* (°K)	Gain (dB Min)	Gain Var. (±dB Max)	Volt. Cur (V, mA)	VSWR In/Out	Model	Freq (GHz)	Noise Temp* (°K)	Gain (dB Min)	Gain Var. (±dB Max)	Volt. Cur (V, mA)	VSWR In/Out
Wideband High Dynamic Range Amplifiers													
BZP526HA1	0.5 - 26	4.5	10	1.2	10	2.3:1/2.3:1	BZ0618HA1	6 - 18	2.3	10	1.0	12	2.0:1/2.0:1
BZP526HB1	0.5 - 26	4.5	15	1.5	15	2.3:1/2.3:1	BZ0618HB1	6 - 18	3.5	17	1.0	20	2.0:1/2.0:1
BZP518HA1	0.5 - 18	2.3	10	1.0	10	2.3:1/2.3:1	BZP506HB1	0.5 - 6	2.0	20	1.2	20	2.2:1/2.2:1
BZP518HB1	0.5 - 18	3.2	17	1.3	17	2.0:1/2.0:1	BZ0510HB1	5 - 10	2.3	20	0.5	20	2.0:1/2.0:1

Model	Freq (GHz)	Noise Temp* (°K)	Gain (dB Min)	Gain Var. (±dB Max)	Volt. Cur (V, mA)	VSWR In/Out	Model	Freq (GHz)	Noise Temp* (°K)	Gain (dB Min)	Gain Var. (±dB Max)	Volt. Cur (V, mA)	VSWR In/Out
Wideband Cryogenic Amplifiers													
BZP502CR1	0.5 - 2.5	12	28	1.5	3,35	2.0:1/2.0:1	BZ0812CR1	8 - 12	15	24	1.5	4,40	2.0:1/2.0:1
BZ0205CR1	2.5 - 5	12	25	1.5	4,40	2.0:1/2.0:1	BZ0818CR1	8 - 18	25	30	1.5	4,40	2.0:1/2.0:1
BZ0408CR1	4 - 8	12	24	1.5	4,40	2.0:1/2.0:1	BZ1840CR1	18 - 40	75	25	2.5	3,45	2.5:1/2.5:1

Most models can be optimized to meet exact requirements at reasonable cost.
All models have internal DC regulators, except Cryogenic Amplifiers.
* Noise Figure and other parameters degrade below 500 MHz.
* Noise Temperature for Cryogenic Amplifiers measured at 77 °K.
* Wideband High Power Amplifiers require larger housings.



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