

To be with you!

Advanced
Semiconductor
Business **Inc.**

Product • Guide

Profile

ASB Inc. located at Daejeon, South Korea, operates an MMIC circuit and RF module design center and in-house test facility. Clean room production line for MMIC/RF module test & assembly is equipped with fully automated or semi-automated machines and test equipments. Test capability covers up to 50 GHz for on-wafer measurement and microwave range for packaged MMIC & module testing. The MMIC products are highly linear LNAs, gain blocks, and power amplifiers with low DC power consumption for use in up to 6 GHz application. The RF modules are internally matched SMD-type LNAs, power amplifiers, and PLL synthesizers. The performance of the modules is optimized for customization. The enthusiastic R&D results in continuous release of new quality products and strengthens the product portfolio, so that Korean government keeps designating the company as a World-class Product Company with Excellent Korean Technology. The company also cooperates with the Sales Representatives covering the important territories of the world in order to provide the shortest and stable delivery. All our members strive to provide cost-effective and state-of-the-art solutions to customers in a timely manner while consistently meeting or exceeding their quality, reliability, and service expectations. The company has been ISO 9001:2000 and ISO 14001:2004 certified by Korea International Standards Certification (KIC) since September 2004 and October 2005.

ASB's Green Product - All our products comply with the EU RoHS Directive 2002/95/EC and especially MMICs are all halogen-free.

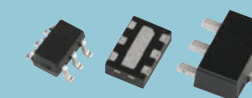
ASB Inc. has an R&D design center for MMIC circuit and RF module simulation. The circuit simulation and layout software includes commercially available ADS, Cadence, etc. on PC-based environment. By using self-contained design capability we develop the MMICs, the SMD-type RF modules, and microwave sub-modules up to 30 GHz aiming at the commercial markets such as DTV, DVB/DMB, CDMA, GSM, WCDMA, GPS, WLAN, CATV, WiBro/WiMAX and so on.

The company owns about 100 patents, related to a world-level proven heterojunction bipolar transistor (HBT) technology and MMIC design, and also has circuit design engineers with 5~20 years experience. The company is mainly using SiGe HBT and BiCMOS, InGaP HBT, and InGaAs Enhanced-mode pHEMT technologies and will expand into analog & mixed-signal IC to challenge a fast growing IT market.



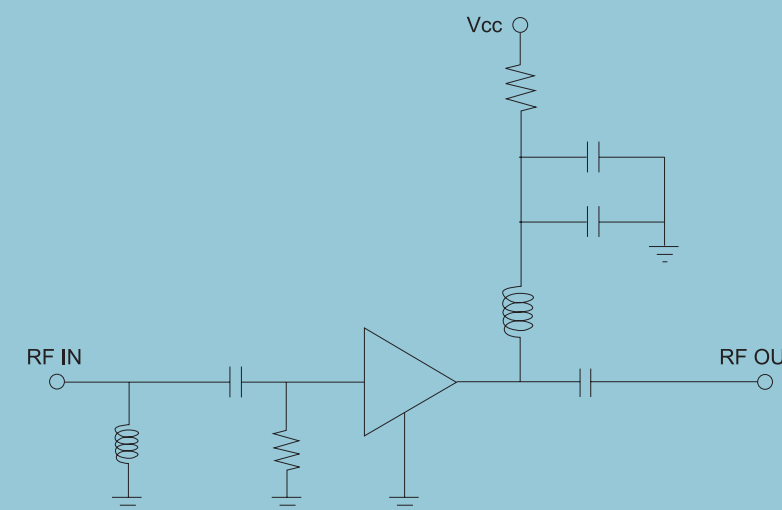
LNA MMIC 50~3500 MHz

Very Low Noise 0.9 dB
High Linearity 38 dBm
Low Current 60 mA



S11 < -20 dB

Internally Matched



- **World Best Wide-band NF & OIP3**
- **Easy S11 Matching down to -20 dB**
- **Unconditionally Stable**
- **High Gain & Linearity Suitable for Gain Block**
- **Low Noise IF Application Available**
- **Low Power Consumption**
- **Package: SOT89 (4x4.5)**
- **Package: SOT363 (2x2), DFN6 (3x2)**

Part No.	Vd (V)	Id (mA)	S21 (dB) @ MHz		OIP3 (dBm) @ MHz		NF (dB) @ MHz		S11 (dB)	S22 (dB)	OP1dB (dBm)	PKG
			900	1900	900	1900	900	1900				
ASL03H	3.6	36	20.6	15.2	30	32	0.9	1.0	-	-	18	SOT363
ASL19H	4.5	73	20	14.5	35	36	1.0	1.05	-20	-13	22	SOT89
ASL19W	4.5	73	20	14	35.5	37	0.9	0.9	-20	-15	21	SOT89
ASL13W	4.5	60	19	13	35.5	38	0.9	0.9	-20	-15	21	SOT63
ASL29W	4.5	75	19	13	37	40	0.9	0.9	-15	-15	22	SOT89
ASL19D	3.0	90	-	24.5	-	36	-	0.95	18	-10	19	DFN6

Unbeatable Gain & Linearity

Wide-band Amplifiers

High Gain
High OIP3
Low Noise

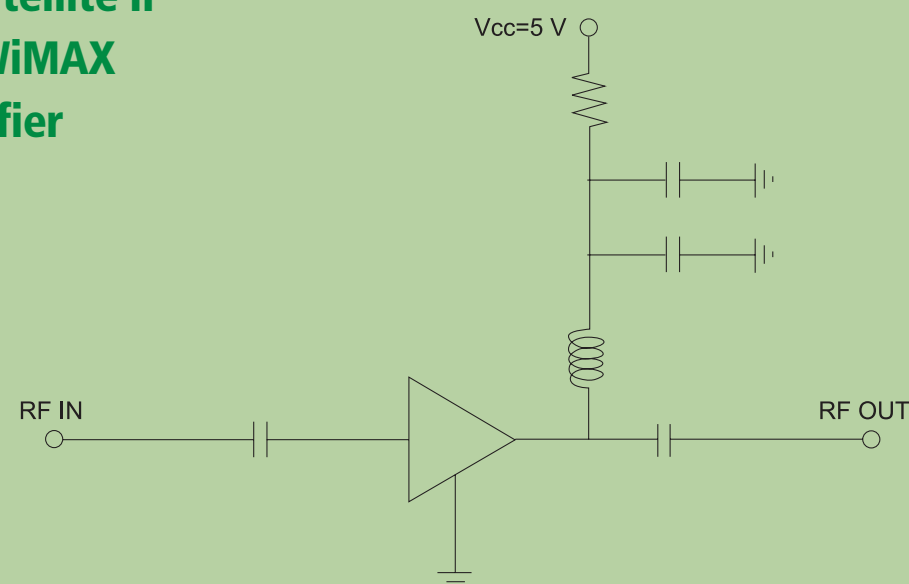
@ Low DC Power

(Measured at 2 GHz)

Part No.	Vd (V)	Id (mA)	Gain(dB) @ MHz		OIP3 (dBm)	OP1dB (dBm)	NF (dB)	Package
			900	2000				
ASW205	4.5	39	24	21	27	16	3.4	SOT89
ASW204	4.5	70	20	18.5	34	20	1.8	SOT89
ASW335	5	100	17.5	16.5	42.5	21.5	2.2	SOT89
ASW338	8	120	17.5	16.5	45	25	2.2	SOT89

Applications

- CDMA, GSM, WCDMA
- CATV, Satellite IF
- WiBro, WiMAX
- IF Amplifier



SUNSTAR微波光电 <http://www.rfoe.net/> TEL:0755-83396822 FAX:0755-83376182 E-MAIL:szss20@163.com

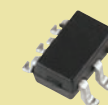
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GPS

Low Noise Amplifier

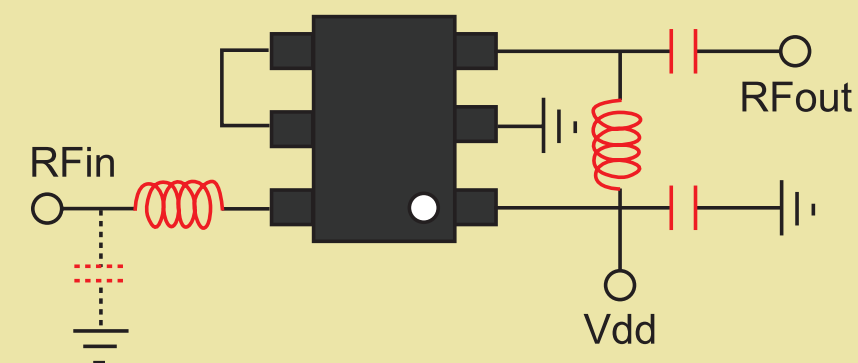
@ 1575 MHz

Vd (V)	Id (mA)	S21 (dB)	NF (dB)
3.0	8.5	28	1.1
2.0	4.5	23.5	1.3



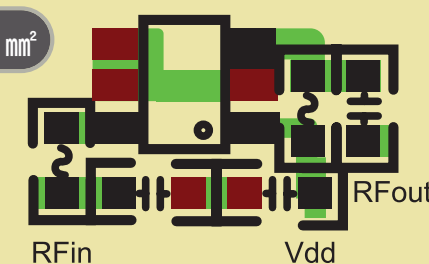
Application Circuit

Highly
Reliable

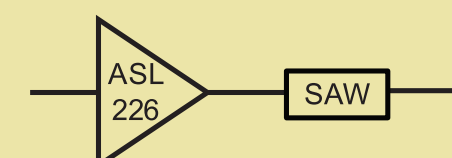
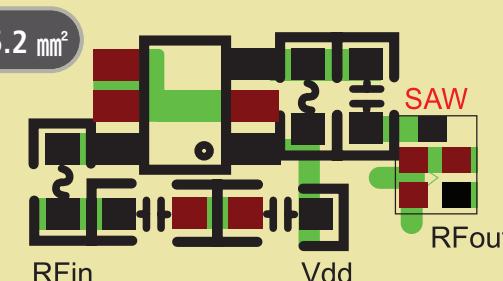


PCB Layout

2.7 × 4.2 mm²



2.7 × 5.2 mm²



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RoHS-compliant
GREEN Package

(If not specified, the data @ 2 GHz)

SUNSTAR射频通信 <http://www.rfoe.net/> TEL:0755-83397033 FAX:0755-83376182 E-MAIL:szss20@163.com



RoHS-compliant
GREEN Package

(If not specified, the data @ 2 GHz)

► Intermediate Frequency Amplifiers

5~500 MHz



(If not specified, the data @ 150 MHz)

Part Number	Vd	Id	S21 (dB) @ MHz				OIP3 (dBm) @ MHz				Ptone	OP1dB	NF	S11	S22	Package	Matching Circuit Frequency (wideband internally matched)
	(V)	(mA)	70	150	300	450	70	150	300	450	(dBm)	(dBm)	(dB)	(dB)	(dB)		
ASX101	3.5	55	28.5	28.5	25.0	-	28	28	29	-	0	18	3.5	-14	-15	SOT89	70 ~ 140 MHz (Data @ 100 MHz)
ASW101	3.3	40	25.0	24.5	23.5	21.5	28	29	30	30	3	17	3.8	-15	-13	SOT89	5 ~ 450 MHz
ASW103	3.3	44	25.0	24.0	23.0	21.0	29	30	31	30	0	17	3.8	-14	-15	SOT89	5 ~ 450 MHz
ASW114	3.2	37	21.0	21.0	21.0	20.5	23	23	23	24	0	12	3.2	-18	-16	SOT363	70 ~ 450 MHz
ASW214	4.9	52	20.0	20.0	20.0	19.5	30	30	30	31	0	16	5.5	-13	-11	SOT89	70 ~ 450 MHz
ASW204	4.6	75	22.5	21.0	20	20.0	31	33	34	-	5	21	2.4	-8	-13	SOT89	50 ~ 450 MHz (Data @ 150 MHz)
ASW205	4.9	72	25.9	25.7	25	25.0	31	32	33	-	0	18	3.7	-18	-11	SOT89	50 ~ 450 MHz (Data @ 150 MHz)
ASL13W	4.5	60	24.5	24.0	22.0	21.0	30	31	32	-	10	21	2.7	-13	-18	SOT363	50 ~ 450 MHz
ASL19H	4.4	73	26.3	25.5	-	-	32	33	-	-	10	22	2.1	-10	-18	SOT89	70 ~ 140 MHz (Data @ 100 MHz)
ASL19W	4.4	73	24.5	24.0	22.5	21.0	32	33	34	-	10	21	2.9	-13	-18	SOT89	30 ~ 400 MHz
ASL29W	4.3	75	25.0	24.0	22.5	21.0	31	32	33	-	10	22	3.0	-11	-18	SOT89	30 ~ 400 MHz
ASW301	4.8	75	25.0	24.0	23.0	21.0	36	36	37	37	8	22	6.8	-14	-15	SOT89	70 ~ 450 MHz
ASW212	4.8	73	17.0	17.0	16.0	15.5	36	37	37	37	3	19	4.8	-18	-10	SOT89	70 ~ 450 MHz
ASW215	4.9	83	18.5	-	-	-	37	-	-	-	3	19	3.4	-16	-14	SOT89	5 ~ 40 MHz (Data @ 40 MHz)
	4.9	83	18.5	18.5	18.0	17.5	38	38	38	38	5	19	3.5	-15	-14	SOT89	70 ~ 450 MHz
ASW350	4.8	150	24.5	24.3	23.0		41	41	40	-	10	24	8.0	-11	-16	SOT89	80 ~ 120 MHz
ASW313	5	95	17.0	17.0	16.5	16.0	42	42	43	-	9	22	1.8	-10	-10	SOT89	80 ~ 300 MHz (Data @ 100 MHz)
ASW318	8	120	17.5	17.5	17.0	16.5	44	44	41	-	10	26	1.8	-9	-11	SOT89	80 ~ 300 MHz (Data @ 100 MHz)
ASW311	5	120	-	14.5	13.5	13.5	-	40	40	40	8	21	3.2	-12	-13	SOT89	150 ~ 450 MHz
ASW335	5	100	18.8	-	18.5	18.0	45	-	43	-	9	22	1.6	-14	-18	SOT89	100 ~ 240 MHz (Data @ 100 MHz)
ASW338	8	120	19.0	-	18.5	18.0	48	-	45	-	13	26	1.7	-14	-15	SOT89	100 ~ 240 MHz (Data @ 100 MHz)

► Low Noise Amplifiers

500~3500 MHz



(If not specified, the data @ 2 GHz)

Part Number	Vd (V)	Id (mA)	S21 (dB) @ MHz				NF (dB) @ MHz				OP1dB (dBm)	OIP3 @ Ptone		S11 (dB)	S22 (dB)	Package	Matching Circuit Frequency (wideband internally matched)
			900	2000	2400	3500	900	2000	2400	3500		(dBm)	(dBm)				
AST11L	4.3	20	-	14	-	-	-	1.1	-	-	13	28	-5	-18	-7	SOT363	-
	3	251	81	3	-	-	1.2	1.1	-	-	14	27	-5	-14	-11		
AST20S	3.1	48	18	14	13	11	0.65	0.7	0.75	1.3	18	34	4	-12	-11	SOT363	-
AST30S	4.4	135	21	16	-	-	2.0	1.9	-	-	22	37	10	-15	-15	DFN6	-
ASL563	3	10	-	-	17	-	-	-	1.3	-	11	17	-5	-15	-14	SOT363	-
	3	16	-	-	19	-	-	-	1.1	-	11	15	-5	-18	-15		
	3	20	-		19	-			1.1	-	12	22	-5	-20	-20		
	5	503	32	6	-	-	1.0	1.0	-	-	15	29	5	-15	-20		
ASL226	3	9	34	25	22	14	1.3	1.3	1.3	1.8	11	17	-10	-15	-20	SOT363	-
ASL03H	3.6	36	21	15	-	-	0.9	1.0	-	-	18	32	0	-	-	SOT363	500 ~ 3500 MHz
ASL13W	4.5	60	19	13	12	-	0.9	0.9	1.1	-	22	38	10	-20	-14	SOT363	500 ~ 3500 MHz
ASL19W	4.4	73	20	13	12	-	0.9	0.9	-		22	37	10	-20	-15	SOT89	500~3500MHz
ASL19H	4.4	73	20	15	12	9	0.95	1.05	1.1	1.8	22	36	10	-20	-13	SOT89	500 ~ 3500 MHz
ASL19D	3	90	-	25	22	16	-	0.95	1.1	-	19	36	5	-18	-10	DFN6	1700 ~ 2700 MHz
ASL29W	4.3	75	19	13	10	-	-	0.9	-	-	23	40	10	-15	-15	SOT89	-

GPS, DVB

Part Number	Frequency (MHz)	Vd (V)	Id (mA)	S21 (dB)			IIP3 (dBm)	OIP3 (dBm)	IP1dB (dBm)	OP1dB (dBm)	NF (dB)	S11 (dB)	S22 (dB)	Package	Remark
ASL116	1575.42	3	4.6	17.0			-7	10	-13	4	1.2	-10	-13	SOT363	$V_{CTL} = 1.7\text{ V}$
		3	9.5	18.5			0	18	-16	3	1.2	-11	-15		$V_{CTL} = 2.8\text{ V}$
ASL226	1575.42	3	8.5	28.0			-13	16	-17	11	1.1	-16	-15	SOT363	Application PCB area : 2.7 x 4.2 mm ²
		2	4.5	23.5			-14	10	-16	8	1.3	-11	-10		Contact ESD 3 KV
ASL236	1575.42	3	9.5	28.6			-13	16	-18	11	1.1	-42	-20	SOT363	$V_{CTL} = 3\text{ V}$
		1.8	5.0	23.5			-11	12	-17	7	1.4	-14	-14		$V_{CTL} = 1.8\text{ V}$
ASL563	1575.42	3	7.7	25.0			-8	16	-14	10	1.1	-15	-13	SOT363	Type 1: 2-stage cascade
		3	7.7	25.0			-5	19	-14	10	1.1	-15	-15		Type 2: a filter in between the 2-stages
ASL003 ⁽¹⁾	170 ~ 240	2	5.0	14.6 ~ 14.4			-	7	-	-1	1.9	-11	-13	SOT363	DVB-T V-band
		2.8	7.0	16.3 ~ 16.1			-	9	-	1	1.8	-13	-14		
	470 ~ 770	2	5.0	13.9 ~ 12.7			-	5	-	-2	1.5	-14	-12		DVB-T U-band
		2.8	7.0	15.5 ~ 13.8			-	9	-	1	1.5	-15	-13		

(1) Preliminary Data. Engineering sample available.

RoHS-compliant
GREEN Package

Part Number	Vs	Ic	Freq. Range	Gain	GF	NF	OIP3 @ Ptone		S11	S22	P1dB	Package Size
	(V)	(mA)	(MHz)	(dB)	(+/-)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dBm)	(mm)
ALN0195AT	5	65	180 ~ 210	21	0.5	1	32	4	-20	-15	18	10x10x3.8
ALN0196AT	5	70	180 ~ 210	23	0.5	1	32	4	-14	-14	18	10x10x3.8
ALN0450AT	5	70	400 ~ 500	20	0.5	1.1	32	4	-14	-14	17	10x10x3.8
ALN0450WT	5	35	400 ~ 500	19	0.4	1.1	29	0	-16	-14	22	10x10x3.8
ALN0460WT	5	65	450 ~ 470	22	0.1	0.75	35	8	17	14	21	10x10x3.8
ALN0675WT	5	40	450 ~ 900	17	1.5	1.1	30	4	15	13	21	10x10x3.8
ALN0836AT	5	40	824 ~ 849	21	0.2	0.55	28	0	12	10	15	10x10x3.8
ALN0837AT	5	40	824 ~ 849	21	0.2	0.65	28	0	-16	-9	15	10x10x3.8
ALN0859AT	5	65	824 ~ 894	19.5	0.5	0.75	31	5	-14	-14	16	10x10x3.8
ALN0859BT	5	40	824 ~ 894	19	0.4	0.8	28	0	-14	-14	14	10x10x3.8
ALN0882AT	3.3	75	873 ~ 892	20	0.2	0.8	32	7	-18	-12	16	10x10x3.8
ALN0902AT	5	60	890 ~ 915	22	0.3	1.0	30	0	-14	-14	17	10x10x3.8
ALN0925AT	5	70	890 ~ 960	20	0.5	0.8	31	8	-14	-14	17	10x10x3.8
ALN0926AT	5	40	890 ~ 960	18.5	0.5	0.6	29	0	-18	-10	15	10x10x3.8
ALN0925BT	5	40	890 ~ 960	18	0.4	0.8	28	0	-14	-14	14	10x10x3.8
ALN1100BT	5	50	950 ~ 1250	16	1.2	0.75	28	4	18	10	15	10x10x3.8
ALN1500AT	5	70	1400 ~ 1600	16	0.5	0.65	33	7	18	10	18	10x10x3.8
ALN1502AT	5	30	1400 ~ 1600	15.9	0.5	0.65	26	0	18	10	12	10x10x3.8
ALN1747AT	5	65	1710 ~ 1785	13	0.2	0.7	33	0	9	9	17	10x10x3.8
ALN1750AT	5	65	1700 ~ 1800	15.5	0.3	0.65	34	7	-19	-9	18	10x10x3.8
ALN1750BT	5	50	1700 ~ 1800	15	0.3	0.8	33	4	-19	-9	17	10x10x3.8
ALN1765AT	5	70	1740 ~ 1790	17.5	0.5	0.7	31	4	-18	-10	18	10x10x3.8
ALN1810AT	5	65	1750 ~ 1870	15.3	0.4	0.65	34	4	-19	-9	18	10x10x3.8
ALN1810BT	5	45	1750 ~ 1870	14.5	0.3	0.8	33	0	-18	-10	16.5	10x10x3.8
ALN1811BT	5	45	1750 ~ 1870	14.5	0.4	0.8	31	4	-18	-10	17	10x10x3.8
ALN1880AT	5	65	1850 ~ 1910	14.9	0.2	0.65	34	7	-19	-9	18	10x10x3.8
ALN1930AT	5	65	1875 ~ 1985	14.8	0.3	0.65	34	7	-19	-9	18	10x10x3.8
ALN1950AT	3.5	25	1900 ~ 2000	14.2	0.3	0.8	31	0	18	9	17	10x10x3.8
ALN1950BT	3.5	25	1900 ~ 2000	14.2	0.3	0.8	31	0	18	9	17	10x10x3.8
ALN1951BT	5	50	1920 ~ 1980	15	0.3	0.9	31	7	18	14	17	10x10x3.8
ALN2044AT	5	50	1920 ~ 2170	14.2	0.5	0.65	34	7	-19	-9	18.5	10x10x3.8
ALN2045AT	5	65	1920 ~ 2170	14.3	0.5	0.65	34	7	-19	-9	18	10x10x3.8
ALN2046AT	5	65	1920 ~ 2170	15.2	0.5	0.7	34	7	-15	-10	18	10x10x3.8
ALN2140BT	5	35	2110 ~ 2170	14.5	0.3	0.8	32	7	-18	-12	17	10x10x3.8
ALN2500AT	5	80	2300 ~ 2700	12.2	0.75	0.75	34	7	-19	-9	19	10x10x3.8
ALN2501AT	5	80	2300 ~ 2700	12.2	0.75	0.75	34	7	-19	-9	19	10x10x3.8
ALN2502AT	5	40	2300 ~ 2700	12.2	0.7	0.6	31	7	-16	-9	17.5	10x10x3.8
ALN2503AT	5	40	2300 ~ 2700	13.5	0.7	0.7	32	0	-11	-8	17	10x10x3.8
ALN2504AT	5	60	2300 ~ 2700	14	06	08	32	0	-12	-10	18	10x10x3.8
ALN2505AT	5	65	2300 ~ 2700	13.5	07	0.65	35	4	12	10	18	10x10x3.8

Part Number	Frequency (MHz)	Vd (V)	Id (mA)	G (dB)	GF (+/-)	NF (dB)	S11 (dB)	S22 (dB)	OP1dB (dBm)	OIP3 @ Ptone		CSO (dBc)	CTB (dBc)	Package	Remark
										(dBm)	(dBm)				
ASL550	50 ~ 1000	8	120	17.0	0.2	2.0	-15	-17	25	43	9	74	75	SOT89	Data @ 500 MHz
	50 ~ 1000	5	92	17.0	0.3	2.0	-14	-14	25	43	5	66	76		Data @ 500 MHz
	50 ~ 1000	8	120	17.0	0.2	2.0	-13	-15	25	43	10	74	75		Data@ 500MHz, Pos. Gainslope
	50 ~ 1000	8	120	12.0	0.2	2.2	-14	-18	20	37	5	-	-		Data @ 500 MHz, Low gain appl.
	5 ~ 200	8	120	17.2	0.2	2.1	-15	-20	25	43	10	-	-		Data @ 100 MHz
	950 ~ 2600	8	120	16.5	0.7	2.5	-12	-18	24	41	5	-	-		Data @ 1800 MHz
	90 ~ 2600	5	95	14.8	0.7	1.7 ~ 3.4	-7	-9	21 ~ 16	40 ~ 35	8	-	-		Data @ 900 MHz
		8	120	15	0.8	1.7 ~ 3.4	-7	-10	24 ~ 20	42 ~ 37	3	-	-		

50~6000 MHz



Part Number	Vs	Ic	Freq. Range	Gain	GF	NF	OIP3 @ Ptone		S11	S22	OP1dB	Package Size
	()	(mA)	(MHz)	(dB)	(+/-)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dBm)	(mm)
ALN0098	5	160	88 ~ 108	35	0.2	1.3	3	4	6	-14	21	13x13x3.8
ALN0207	5	160	200 ~ 215	35	0.2	0.8	37	4	-20	-20	21	13x13x3.8
ALN0223	5	160	215 ~ 231	35	0.2	0.8	37	8	-20	-20	21	13x13x3.8
ALN0460	5	160	450 ~ 470	35	0.1	0.75	38	8	-18	-18	22	13x13x3.8
ALN0810	5	100	780 ~ 840	38	0.3	0.6	34	10	-16	-16	18	13x13x3.8
ALN0832	5	130	830 ~ 835	29	0.1	0.7	32	0	15	-15	17	13x13x3.8
ALN0836	5	130	823.5 ~ 848.5	29	0.1	0.7	32	0	15	-15	17	13x13x3.8
ALN0837	3.3	100	828 ~ 847	36	0.2	0.8	30	10	-18	-18	18	13x13x3.8
ALN0859	5	105	824 ~ 894	37.5	0.5	0.65	34	8	-18	-14	17	13x13x3.8
ALN0892R2	5	110	824 ~ 894	35	0.5	0.7	38	5	-18	-15	21	10x10x3.8
ALN0892T1	5	100	824 ~ 894	36	0.5	0.8	37	5	-18	-15	21	10x10x3.8
ALN0892R2	5	110	890 ~ 960	34.5	0.5	0.72	38	5	-18	-15	21	10x10x3.8
ALN0892T1	5	100	890 ~ 960	35	0.5	0.85	37	5	18	-15	21	10x10x3.8
ALN0905	5	320	885 ~ 925	29	0.2	0.8	36	4	-20	-20	22	13x13x3.8
ALN0925	5	80	890 ~ 960	37.5	0.5	1.1	35	10	-14	-14	19	13x13x3.8
ALN1100	5	100	950 ~ 1250	32	0.3	0.75	35	10	-18	-10	18	13x13x3.8
ALN1100T2	5	20	950 ~ 1250	25	1	0.85	18	-15	-18	-10	12	10x10x3.8
ALN1101	5	50	950 ~ 1250	16	1	0.9	28	0	-13.3	-13.3	13	13x13x3.8
ALN1250	5	80	1000 ~ 1500	30	0.5	0.9	32	4	16	-10	16	13x13x3.8
ALN1280	5	100	1270 ~ 1290	32	0.2	0.7	38	10	18	-10	18	13x13x3.8
ALN1400	5	50	1200 ~ 1600	25	1	0.8	29	0	-18	-10	18	13x13x3.8
ALN1425	5	80	1200 ~ 1650	30	0.3	1.0	34	4	-18	-10	17	13x13x3.8
ALN1465	5	85	1450 ~ 1480	27	0.2	0.95	33	10	-18	-10	18	13x13x3.8
ALN1585	5	100	1550 ~ 1620	34	0.4	0.95	34	5	-18	-10	21	13x13x3.8
ALN1700	5	100	1550 ~ 1850	28	0.5	0.8	37	10	-14	-14	18	13x13x3.8
ALN1701	5	80	1550 ~ 1850	30	0.5	0.95	36	10	20	10	20	13x13x3.8
ALN1750	5	80	1700 ~ 1800	27	0.5	0.95	33	10	-18	-10	18	13x13x3.8
ALN1800T2	5	100	1700 ~ 1900	26	0.8	0.65	34	7	-14	-14	21	10x10x3.8
ALN1810	5	80	1750 ~ 1870	30	0.5	0.9	37	10	-14	-14	19	13x13x3.8
ALN1811	5	80	1750 ~ 1870	27	0.5	0.95	33	10	-18	-10	18	13x13x3.8
ALN1880	5	100	1850 ~ 1920	32	0.3	0.9	34	7	-18	-10	20	13x13x3.8
ALN1910	5	80	1900 ~ 1920	30	0.2	0.8	38	10	14	-14	20	13x13x3.8
ALN1911	5	180	1900 ~ 1920	29	0.1	0.9	36	10	17.7	17.7	23	13x13x3.8
ALN1912	5	80	1900 ~ 1920	27	0.1	0.95	33	10	-18	-10	18	13x13x3.8
ALN1930	5	80	1875 ~ 1985	27	0.5	0.95	33	10	-18	-10	18	13x13x3.8
ALN1945	5	150	1915 ~ 1975	27	0.1	0.65	36	7	-18	-10	23	13x13x3.8

50~6000 MHz

Part Number	Vs	Ic	Freq. Range	Gain	GF	NF	OIP3 @ Ptone		S11	S22	OP1dB	Package Size
	(V)	(mA)	(MHz)	(dB)	(+/-)	(dB)	(dBm)	(dBm)	(dB)	(dB)	(dBm)	(mm)
ALN1945T2	5	80	1920 ~ 1980	32	0.2	1	31	3	-18	-10	17	10x10x3.8
ALN1951	5	75	1940 ~ 1960	27	0.1	0.65	33	5	-18	-10	20.5	13x13x3.8
ALN1952	5	100	1940 ~ 1960	30	0.1	0.9	33	4	-18	-10	21	13x13x3.8
ALN1953	5	100	1940 ~ 1960	29	0.1	0.65	34	7	-18	-10	21	13x13x3.8
ALN1960	5	80	1940 ~ 1980	30	0.5	0.9	36	10	-20	-10	19	13x13x3.8
ALN1970T2	5	90	1960 ~ 1980	29	0.1	0.65	33	5	-18	-15	17	10x10x3.8
ALN1971T2	5	95	1960 ~ 1980	24	0.1	0.65	34	5	-18	-12	20	10x10x3.8
ALN2017	5	95	2010 ~ 2025	32.5	0.1	0.95	34	8	-18	-15	21	13x13x3.8
ALN2045	5	80	1920 ~ 2170	27	0.5	0.95	35	10	-18	-10	18	13x13x3.8
ALN2045R2	5	110	1920 ~ 2170	25.5	0.8	0.95	36.5	10	-18	-10	20.5	10x10x3.8
ALN2045T1	5	95	1920 ~ 2170	28	0.7	1	35	7	-18	-15	20	10x10x3.8
ALN2046	5	80	1920 ~ 2170	28	0.5	0.95	29	10	-18	-10	18	13x13x3.8
ALN2046R2	5	110	1920 ~ 2170	22	1	0.95	38	7	-18	-10	21	10x10x3.8
ALN2047	5	90	1920 ~ 2170	25	0.6	0.9	35	4	-18	-10	20	13x13x3.8
ALN2250	5	80	2200 ~ 2300	25	0.5	1	33	10	-18	-10	18	13x13x3.8
ALN2251	5	80	2000 ~ 2500	26	0.3	1	33	4	-18	-10	17	13x13x3.8
ALN2313R2	5	120	2300 ~ 2326	20	0.2	1.1	38	7	-18	-10	21	10x10x3.8
ALN2330T2	5	100	2300 ~ 2360	21	0.2	0.7	35	4	-18	-10	21	10x10x3.8
ALN2331	5	165	2300 ~ 2360	25	0.3	0.88	36	10	-15	-12	20	13x13x3.8
ALN2332	5	100	2300 ~ 2360	25	0.2	0.75	36	5	-18	10	21	13x13x3.8
ALN2333	5	90	2300 ~ 2360	24	0.1	1.0	34	4	-18	10	20	13x13x3.8
ALN2350	5	85	2300 ~ 2400	30	0.5	0.95	32	10	-18	-10	20	13x13x3.8
ALN2351	5	130	2300 ~ 2400	35	0.5	0.95	37	7	-18	-10	21	13x13x3.8
ALN2352	4.5	130	2300 ~ 2400	35	0.5	0.9	37	4	-18	-10	21	13x13x3.8
ALN2376	5	100	2363 ~ 2390	28	0.2	0.8	36	5	-18	-10	21	13x13x3.8
ALN2400	5	80	2300 ~ 2500	25	0.5	1.1	35	10	-18	-10	18	13x13x3.8
ALN2401	3.3	80	2300 ~ 2500	30	0.6	1	32	4	-18	-12	18	13x13x3.8
ALN2450T2	5	90	2300 ~ 2600	28	1	0.9	34	4	-18	-12	18	10x10x3.8
ALN2500	3.3	30	2480 ~ 2520	28	0.5	1	29	0	-17	-12	13	13x13x3.8
ALN2575T2	3	50	2560 ~ 2590	24	0.2	0.75	28	0	-18	-10	15	10x10x3.8
ALN2575T1	3	60	2560 ~ 2590	24	0.2	0.8	31	0	-18	-10	15	10x10x3.8
ALN2590T2	5	70	2490 ~ 2690	23	0.3	0.8	32	3	-18	-15	15	10x10x3.8
ALN2592	5	120	2577.5 ~ 2607	25	0.5	0.95	32.5	10	-17	-11	20	13x13x3.8
ALN2700	5	100	2500 ~ 2900	26.5	0.75	1.2~1.3	34.5	5	-17	-11	21	13x13x3.8
ALN3300	5	100	3050 ~ 3500	20	1.3	0.95	34	5	-18	-10	21	13x13x3.8
ALN3687	5	100	3680 ~ 3695	18	0.2	1.0	33	5	-18	-10	20	13x13x3.8
ALN3800T2	5	100	3400 ~ 4200	21	1.0	1.5	30	5	-11	-8	18	10x10x3.8
ALN4500	5	160	4000 ~ 5000	18	0.5	1.85	35	4	-8	-10	21	13x13x3.8
ALN5000	5	160	4000 ~ 6000	18	1.2	2.0	35	4	-9	-9	21	13x13x3.8
ALN5050	5	160	4300 ~ 5800	17	0.5	2.05	35	4	-9	-9	21	13x13x3.8
ALN5500	5	160	5000 ~ 6000	17	0.4	2.1	35	4	-9	-10	21	13x13x3.8
ALN1810M3	5	400	1710 ~ 1910	36	0.6	0.7	42	10	-20	-20	28	25x13x3
ALN2642L	5	250	2630 ~ 2655	50	0.5	1.2	24~36	3	-14	-14	12~17	36x36x4
ACL4275T2	5	50	4200 ~ 4350	21	0.8	1.25	30	4	-18	-10	14	10x10x3.8
ACL4400T2	5	50	4300 ~ 4500	20	0.8	1.5	30	4	-15	-12	14	10x10x3.8
ACL5000T2	5	50	4900 ~ 5100	18.5	0.8	1.5	30	4	15	11	14	10x10x3.8
ALN50-1000AT	5	90	50 ~ 300	16	0.1	2.0	39	5	-15	-10	21	10x10x3.8
			300 ~ 600	16	0.1	2.1	39	5	-12	-14	21	
			600 ~ 1000	15.5	0.2	2.2	36	5	-11	-11	20	





ISO 9001:2000
ISO 14001:2004



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