

High Linearity, Internally Matched SMD-type LNA



Last update: January, 2012

Class	Appl.	Part No.	Vs (V)	Ic (mA)	Freq. Range		Gain (dB)	GF (+/-)	NF (dB)	OIP3 (dBm)	S11 (dB)	S22 (dB)	P1dB (dBm)	PKG Size (mm)
					(MHz)	(MHz)								
4G LTE		ALN0742AT	5	65	698	787	19	0.2	0.8	31	-13	-13	16.5	10x10x3.8
		ALN0743AT	5	65	698	787	22	0.6	0.55	31	-10	-10	16	10x10x3.8
		ALN0742WT	5	70	698	787	19	0.5	0.7	35	-18	-12	22	10x10x3.8
		ALN0742	5	110	698	787	37	0.6	0.65	35	-18	-10	21	13x13x3.8
		ALN0742T2	5	110	698	787	38	0.4	0.7	35	-18	-10	20	10x10x3.8
		ALN0743	5	130	698	787	37	0.4	0.7	41	-18	-9	21	13x13x3.8
		ALN0744	5	140	698	787	36	0.6	0.75	41	-18	-10	21	13x13x3.8
1-stage		ALN0070WT	5	40	60	80	22	0.2	0.9	27	-18	-10	17	10x10x3.8
		ALN0140WT	5	73	125	155	25	0.2	0.7	31	-12	-18	21	10x10x3.8
	T-DMB	ALN0195AT	5	65	180	210	21	0.5	1	32	-20	-15	18	10x10x3.8
	T-DMB	ALN0196AT	5	70	180	210	23	0.5	1	32	-14	-14	18	10x10x3.8
		ALN0450AT	5	70	400	500	20	0.5	1.1	32	-14	-14	17	10x10x3.8
		ALN0450WT	5	35	400	500	19	0.4	1.1	29	-16	-14	22	10x10x3.8
		ALN0460WT	5	65	450	470	22	0.1	0.75	35	-17	-14	21	10x10x3.8
	75ohms CMMB	ALN0667WT	5	40	470	860	17	1.5	1.1	30	-9	-9	21	10x10x3.8
	50ohms CMMB	ALN0675WT	5	40	450	900	17	1.5	1.1	30	-15	-13	21	10x10x3.8
	CDMA	ALN0836AT	5	40	824	849	21	0.2	0.55	28	-12	-10	15	10x10x3.8
	CDMA	ALN0837AT	5	40	824	849	21	0.2	0.65	28	-18	-10	15	10x10x3.8
	CDMA	ALN0838AT	5	40	824	849	21	0.2	0.7	28	-19	-9	15	10x10x3.8
	CDMA	ALN0839AT	5	50	824	849	20	0.2	0.6	28	-15	-15	15	10x10x3.8
	CDMA	ALN0859AT	5	65	824	894	19.5	0.5	0.75	31	-14	-14	16	10x10x3.8
	CDMA	ALN0859BT	5	60	824	894	19	0.4	0.8	30.5	-14	-14	17	10x10x3.8
	CDMA	ALN0882AT	3.3	75	873	892	20	0.2	0.8	32	-18	-12	16	10x10x3.8
		ALN0902AT	5	60	890	915	22	0.3	1.0	30	-14	-14	17	10x10x3.8
	GSM	ALN0925AT	5	70	890	960	20	0.5	0.8	31	-14	-14	17	10x10x3.8
	GSM	ALN0926AT	5	40	890	960	18.5	0.5	0.6	29	-18	-10	15	10x10x3.8
	GSM	ALN0925BT	5	60	890	960	18	0.4	0.8	30.5	-14	-14	16.5	10x10x3.8
		ALN1100BT	5	50	950	1250	16	1.2	0.75	28	-18	-10	15	10x10x3.8
		ALN1220AT	5	40	940	1500	17.5	1.5	0.65	28	-13	-8	15	10x10x3.8
		ALN1500AT	5	70	1400	1600	16	0.5	0.65	33	-18	-10	18	10x10x3.8
		ALN1502AT	5	30	1400	1600	15.9	0.5	0.65	26	-18	-10	12	10x10x3.8
		ALN1747AT	5	65	1710	1785	13	0.2	0.7	33	-19	-19	17	10x10x3.8
	PCS	ALN1750AT	5	65	1700	1800	15.5	0.3	0.65	34	-19	-9	18	10x10x3.8
		ALN1750BT	5	50	1700	1800	15	0.3	0.8	33	-19	-9	17	10x10x3.8
	PCS	ALN1765AT	5	70	1740	1790	17.5	0.5	0.7	31	-18	-10	18	10x10x3.8
	PCS	ALN1810AT	5	65	1750	1870	15.3	0.4	0.65	34	-19	-9	18	10x10x3.8
	PCS	ALN1810BT	5	45	1750	1870	14.5	0.3	0.8	33	-18	-10	16.5	10x10x3.8
	PCS	ALN1811BT	5	45	1750	1870	14.5	0.4	0.8	31	-18	-10	17	10x10x3.8
		ALN1880AT	5	65	1850	1910	14.9	0.2	0.65	34	-19	-9	18	10x10x3.8
		ALN1930AT	5	65	1875	1985	14.8	0.3	0.65	34	-19	-9	18	10x10x3.8
		ALN1931AT	5	50	1875	1985	14.8	0.3	0.6	34	-19	-9	18	10x10x3.8
		ALN1950BT	3.5	25	1900	2000	14.2	0.3	0.8	31	-18	-9	17	10x10x3.8
WCDMA	ALN1951BT	5	50	1920	1980	15	0.3	0.9	31	-18	-14	17	10x10x3.8	
WCDMA	ALN2044AT	5	50	1920	2170	14.2	0.5	0.65	34	-19	-9	18.5	10x10x3.8	
WCDMA	ALN2045AT	5	65	1920	2170	14.3	0.5	0.65	34	-19	-9	18	10x10x3.8	
WCDMA	ALN2046AT	5	65	1920	2170	15.2	0.5	0.7	34	-15	-10	18	10x10x3.8	
WCDMA	ALN2140BT	5	35	2110	2170	14.5	0.3	0.8	32	-18	-12	17	10x10x3.8	
WiBro/WiMax	ALN2500AT	5	80	2300	2700	12.2	0.75	0.75	34	-19	-9	19	10x10x3.8	
WiBro/WiMax(Switching)	ALN2501AT	5	80	2300	2700	12.2	0.75	0.75	34	-19	-9	19	10x10x3.8	
WiBro/WiMax(Switching)	ALN2502AT	5	40	2300	2700	12.2	0.7	0.6	31	-16	-9	17.5	10x10x3.8	
WiBro/WiMax(Switching)	ALN2503AT	5	40	2300	2700	13.5	0.7	0.7	32	-11	-8	17	10x10x3.8	
WiBro/WiMax(Switching)	ALN2504AT	5	60	2300	2700	14	0.6	0.8	32	-12	-10	18	10x10x3.8	
WiBro/WiMax(Switching)	ALN2505AT	5	65	2300	2700	13.5	0.7	0.65	35	-12	-10	18	10x10x3.8	
WiBro/WiMax(Switching)	ALN2506AT	5	25	2300	2700	12	0.6	0.6	28	-14	-12	15	10x10x3.8	

High Linearity, Internally Matched SMD-type LNA



Last update: January, 2012

Class	Appl.	Part No.	Vs (V)	Ic (mA)	Freq. Range (MHz)		Gain (dB)	GF (+/-)	NF (dB)	OIP3 (dBm)	S11 (dB)	S22 (dB)	P1dB (dBm)	PKG Size (mm)
2-stage	T-DMB	ALN0098	5	180	88	108	35	0.2	1.3	36	-16	-14	21	13x13x3.8
		ALN0207	5	160	200	215	35	0.2	0.8	37	-20	-20	21	13x13x3.8
		ALN0223	5	160	215	231	35	0.2	0.8	37	-20	-20	21	13x13x3.8
		ALN0230	5	180	225	236	39	0.2	0.65	38	-20	-15	21	13x13x3.8
		ALN0450	5	170	400	500	36	0.6	0.65	38.5	-18	-18	21	13x13x3.8
		ALN0460	5	160	450	470	35	0.1	0.75	38	-18	-18	22	13x13x3.8
		ALN0665	5	130	470	860	36.5	1.5	0.7	40	-18	-10	21	13x13x3.8
		ALN0667	5	140	470	860	35	1.6	0.8	40	-15	-13	21	13x13x3.8
		ALN0810	5	100	780	840	38	0.3	0.6	34	-16	-16	18	13x13x3.8
		ALN0815	5	170	806	824	30	0.3	0.75	39.5	-18	-12	20	13x13x3.8
		ALN0832	5	130	830	835	29	0.1	0.7	32	-15	-15	17	13x13x3.8
		ALN0836	5	130	823.5	848.5	29	0.1	0.7	32	-15	-15	17	13x13x3.8
		ALN0837	3.3	100	828	847	36	0.2	0.8	30	-18	-18	18	13x13x3.8
		ALN0838	5	100	776	901	32	0.7	0.45	34	-18	-18	18	13x13x3.8
		ALN0855	5	180	829	881	27	0.4	0.65	36	-20	-20	21	13x13x3.8
		ALN0859	5	105	824	894	37.5	0.5	0.65	34	-18	-14	17	13x13x3.8
		ALN0860	5	90	824	894	37.5	0.2	0.55	36.5	-18	-14	16	13x13x3.8
		ALN0878	5	170	816	940	30	0.5	0.75	39.5	-18	-10	20	13x13x3.8
		ALN0892	5	170	824	894	34	0.5	0.65	39	-18	-12	21	13x13x3.8
ALN0892R2	5	110	824	894	35	0.5	0.7	38	-18	-15	21	10x10x3.8		
ALN0892T1	5	100	824	894	36	0.5	0.8	37	-18	-15	21	10x10x3.8		
ALN0892R2	5	110	890	960	34.5	0.5	0.72	38	-18	-15	21	10x10x3.8		
ALN0892T1	5	100	890	960	35	0.5	0.85	37	-18	-15	21	10x10x3.8		
ALN0905	5	320	885	925	29	0.2	0.8	36	-20	-20	22	13x13x3.8		
ALN0910	5	160	905	915	22	0.1	1.1	35	-18	-15	19	13x13x3.8		
ALN0925	5	80	890	960	37.5	0.5	1.1	35	-14	-14	19	13x13x3.8		
ALN1100	5	100	950	1250	32	0.3	0.75	35	-18	-10	18	13x13x3.8		
ALN1100R2	5	100	950	1250	32.5	1.5	0.75	32	-12	-14	20	10x10x3.8		
ALN1101R2	5	100	950	1250	33	0.9	0.75	35	-18	-12	21	10x10x3.8		
ALN1100T2	5	20	950	1250	25	1	0.85	18	-18	-10	12	10x10x3.8		
ALN1102	5	80	950	1250	26	1	0.65	30.5	-18	-10	17.5	13x13x3.8		
ALN1250	5	80	1000	1500	30	0.5	0.9	32	-16	-10	16	13x13x3.8		
ALN1280	5	100	1270	1290	32	0.2	0.7	38	-18	-10	18	13x13x3.8		
ALN1400	5	55	1200	1600	25	1	0.7	30	-18	-10	19	13x13x3.8		
ALN1425	5	80	1200	1650	30	0.3	1.0	34	-18	-10	17	13x13x3.8		
ALN1465	5	85	1450	1480	27	0.2	0.95	33	-18	-10	18	13x13x3.8		
ALN1500	5	180	1400	1600	28	0.6	0.6	38	-18	-13	21	13x13x3.8		
ALN1542T2	5	35	1525	1559	24	0.1	0.53	19	-17	-17	8	10x10x3.8		
ALN1585	5	100	1550	1620	34	0.4	0.95	34	-18	-10	21	13x13x3.8		
ALN1700	5	100	1550	1850	28	0.5	0.8	37	-14	-14	18	13x13x3.8		
ALN1701	5	80	1550	1850	30	0.5	0.95	36	-20	-10	20	13x13x3.8		
ALN1733	5	170	1710	1755	27.5	0.1	0.6	38	-18	-18	21	13x13x3.8		
ALN1735T2	5	80	1720	1750	20	0.1	0.6	30	-20	-10	18	10x10x3.8		
ALN1750	5	80	1700	1800	27	0.5	0.95	33	-18	-10	18	13x13x3.8		
ALN1748T2	5	120	1710	1785	23	0.3	0.75	37	-19	-19	20	10x10x3.8		
ALN1750T2	5	100	1700	1800	22	0.4	0.6	35	-18	-10	21	10x10x3.8		
ALN1751T2	5	120	1700	1800	23.3	0.3	0.6	37	-18	-10	20	10x10x3.8		
ALN1800T2	5	100	1700	1900	26	0.8	0.65	34	-14	-14	21	10x10x3.8		
ALN1810	5	80	1750	1870	30	0.5	0.9	37	-14	-14	19	13x13x3.8		
ALN1811	5	80	1750	1870	27	0.5	0.95	33	-18	-10	18	13x13x3.8		
ALN1812	5	180	1750	1870	27	0.4	0.6	38	-18	-14	22	13x13x3.8		
ALN1850T2	5	100	1700	2000	23	1.5	0.6	35	-18	-10	21	10x10x3.8		
ALN1880	5	100	1850	1920	32	0.3	0.9	34	-18	-10	20	13x13x3.8		
ALN1883T2	5	100	1850	1915	22.8	0.3	0.6	36	-18	-10	21	10x10x3.8		
ALN1884T2	5	100	1850	1915	23.5	0.3	0.55	34	-20	-15	21	10x10x3.8		
ALN1910	5	170	1900	1920	30	0.2	0.8	38	-18	-10	20	13x13x3.8		

High Linearity, Internally Matched SMD-type LNA



Last update: January, 2012

Class	Appl.	Part No.	Vs (V)	Ic (mA)	Freq. Range (MHz)		Gain (dB)	GF (+/-)	NF (dB)	OIP3 (dBm)	S11 (dB)	S22 (dB)	P1dB (dBm)	PKG Size (mm)
		ALN1911	5	180	1900	1920	29	0.1	0.8	36	-18	-10	23	13x13x3.8
		ALN1912	5	120	1900	1920	27	0.1	0.65	34	-18	-10	21	13x13x3.8
	WCDMA	ALN1922	5	170	1850	1955	30	0.4	0.65	39	-18	-9	21	13x13x3.8
	WCDMA	ALN1930	5	80	1875	1985	27	0.5	0.95	33	-18	-10	18	13x13x3.8
	WCDMA	ALN1945	5	150	1915	1975	27	0.1	0.65	36	-18	-10	23	13x13x3.8
	WCDMA	ALN1945T2	5	80	1920	1980	32	0.2	1	31	-18	-10	17	10x10x3.8
	WCDMA	ALN1946	5	120	1901	1991	27	0.3	0.65	36	-20	-20	22	13x13x3.8
	WCDMA	ALN1950T2	5	130	1920	1980	23.5	0.3	0.6	36.5	-18	-12	22	10x10x3.8
	WCDMA	ALN1951	5	75	1940	1960	27	0.1	0.65	33	-18	-10	20.5	13x13x3.8
	WCDMA	ALN1952	5	100	1940	1960	30	0.1	0.9	33	-18	-10	21	13x13x3.8
	WCDMA	ALN1953	5	100	1940	1960	29	0.1	0.65	34	-18	-10	21	13x13x3.8
	WCDMA	ALN1954	5	170	1920	1980	26.5	0.15	0.65	38	-18	-15	20	13x13x3.8
	WCDMA	ALN1955	5	80	1940	1960	27	0.1	0.7	33	-18	-10	21	13x13x3.8
	WCDMA	ALN1956	5	110	1920	1980	29	0.2	0.6	36	-18	-10	21	13x13x3.8
	WCDMA	ALN1960	5	80	1940	1980	30	0.5	0.95	36	-20	-10	19	13x13x3.8
	WCDMA	ALN1967T2	5	80	1960	1975	19.5	0.1	0.65	30	-20	-10	19	10x10x3.8
	WCDMA	ALN1970	5	110	1960	1980	30	0.1	0.75	36	-18	-10	20	13x13x3.8
	WCDMA	ALN1970T2	5	90	1960	1980	29	0.1	0.65	33	-18	-15	17	10x10x3.8
	WCDMA	ALN1971T2	5	95	1960	1980	24	0.1	0.65	34	-18	-12	20	10x10x3.8
	WCDMA	ALN1972T2	5	100	1960	1980	22	0.1	0.65	34	-18	-12	20	10x10x3.8
	TDS-CDMA	ALN2017	5	95	2010	2025	32.5	0.1	0.95	34	-18	-15	21	13x13x3.8
	WCDMA	ALN2045	5	80	1920	2170	27	0.5	0.95	35	-18	-10	18	13x13x3.8
	WCDMA	ALN2045R2	5	110	1920	2170	25.5	0.8	0.95	36.5	-18	-10	20.5	10x10x3.8
	WCDMA	ALN2045T1	5	95	1920	2170	28	0.7	1	35	-18	-15	20	10x10x3.8
	WCDMA(Switching)	ALN2046	5	80	1920	2170	28	0.5	0.95	29	-18	-10	18	13x13x3.8
	WCDMA	ALN2046R2	5	110	1920	2170	22	1	0.95	38	-18	-10	21	10x10x3.8
	WCDMA	ALN2047	5	90	1920	2170	25	0.6	0.9	35	-18	-10	20	13x13x3.8
		ALN2250	5	80	2200	2300	25	0.5	1	33	-18	-10	18	13x13x3.8
		ALN2251	5	80	2000	2500	26	0.3	1	33	-18	-10	17	13x13x3.8
	WiBro	ALN2313R2	5	120	2300	2326	20	0.2	1.1	38	-18	-10	21	10x10x3.8
		ALN2330T2	5	100	2300	2360	21	0.2	0.7	35	-18	-10	21	10x10x3.8
	WiBro(Switching)	ALN2331	5	165	2300	2360	25	0.3	0.88	36	-15	-12	20	13x13x3.8
	WiBro	ALN2332	5	100	2300	2360	25	0.2	0.75	36	-18	10	21	13x13x3.8
	WiBro	ALN2333	5	90	2300	2360	24	0.1	1.0	34	-18	10	20	13x13x3.8
	WiBro	ALN2350	5	85	2300	2400	30	0.5	0.95	32	-18	-10	20	13x13x3.8
		ALN2351	5	130	2300	2400	35	0.5	0.9	37	-18	-10	21	13x13x3.8
		ALN2352	4.5	130	2300	2400	35	0.5	0.9	37	-18	-10	21	13x13x3.8
		ALN2355	5	140	2300	2400	35	0.5	0.7	37	-18	-14	21	13x13x3.8
	WiBro	ALN2376	5	100	2363	2390	28	0.2	0.8	36	-18	-10	21	13x13x3.8
	WiBro	ALN2400	5	80	2300	2500	25	0.5	1.1	35	-18	-10	18	13x13x3.8
	WiBro	ALN2401	3.3	80	2300	2500	30	0.6	1	32	-18	-12	18	13x13x3.8
	WiBro	ALN2450T2	5	90	2300	2600	28	1	0.65	34	-18	-12	18	10x10x3.8
	WiBro	ALN2500	3.3	30	2480	2520	28	0.5	1	29	-17	-12	13	13x13x3.8
	WiMax(Switching)	ALN2575T1	3	60	2560	2590	24	0.2	0.8	31	-18	-10	15	10x10x3.8
	WiMax	ALN2590T2	5	80	2490	2690	23	0.3	0.8	32	-18	-15	15	10x10x3.8
	WiMax(Switching)	ALN2592	5	120	2578	2607	25	0.5	0.95	32.5	-17	-11	20	13x13x3.8
	WiMax(Switching)	ALN2593T2	5	80	2496	2690	24	0.3	0.80	32	-17	-17	15	10x10x3.8
		ALN2600T2	5	80	2500	2700	23	0.3	0.7	30	-17	-15	14	10x10x3.8
	WiMax	ALN3300	5	100	3050	3500	20	1.3	0.95	34	-18	-10	21	13x13x3.8
		ALN3500	5	160	3400	3600	19	0.2	1.1	36	-10	-9	20	13x13x3.8
		ALN3501	5	160	3400	3600	19	0.2	1.15	36	-17	-8	20	13x13x3.8
		ALN3687	5	100	3680	3695	18	0.2	1.0	33	-18	-10	20	13x13x3.8
		ALN3800T2	5	100	3400	4200	12	1.0	1.5	30	-11	-8	18	10x10x3.8

High Linearity, Internally Matched SMD-type LNA



Last update: January, 2012

Class	Appl.	Part No.	Vs (V)	Ic (mA)	Freq. Range		Gain (dB)	GF (+/-)	NF (dB)	OIP3 (dBm)	S11 (dB)	S22 (dB)	P1dB (dBm)	PKG Size (mm)
					(MHz)	(MHz)								
3-stage		ALN4500	5	160	4000	5000	18	0.5	1.85	35	-8	-10	21	13x13x3.8
		ALN5000	5	160	4000	6000	18	1.3	2.1	35	-8	-9	21	13x13x3.8
		ALN5050	5	160	4300	5800	17	0.5	2.05	35	-9	-9	21	13x13x3.8
		ALN5500	5	160	5000	6000	17	0.5	2.1	35	-9	-10	21	13x13x3.8
		ALN5850	5	160	5750	5950	17	0.4	2.0	34	-12	-12	20	13x13x3.8
		ALN0859M3	5	400	824	894	55	0.4	0.7	46	-18	-10	29	25x13x3
		ALN1810M3	5	400	1710	1910	36	0.6	0.7	42	-20	-20	28	25x13x3
		ALN2045M3	5	400	1920	2170	36	0.4	0.7	44	-18	-10	29	25x13x3
		ALN2540M3	5	200	2525	2555	35.5	0.2	0.65	34.5	-12	-12	18	25x13x3
		1-stage		ACL4275T2	5	50	4200	4350	21	0.8	1.25	30	-18	-10
ACL4300T2	5			50	4200	4400	20	0.9	1.25	30	-18	-10	14	10x10x3.8
ACL4400T2	5			50	4300	4500	20	0.8	1.5	30	-15	-12	14	10x10x3.8
ACL5000T2	5			50	4900	5100	18.5	0.8	1.5	30	-15	-11	14	10x10x3.8
1-stage	CATV	ALN50-1000AT	5	90	50	300	16	0.1	2.0	39	-15	-10	21	
					300	600	16	0.1	2.1	39	-12	-14	21	10x10x3.8
					600	1000	15.5	0.2	2.2	36	-11	-11	20	
1-stage		ALN50-1001AT	5	100	50	300	16	0.2	2.35	41	-11	-13	20	
					300	600	16	0.1	2.4	41	-11	-13	21	10x10x3.8
					600	1000	15.5	0.35	2.5	39	-10	-10	21	