

Low Noise Amplifiers

LNA features very low noise and is normally used as pre-amplifier in HF or IF of radio receiver and amplifier circuit in high-sensitivity electronic detection equipment. In weak signal environment, LNA could lower the noise of amplifier itself and increase SNR (Signal to Noise Ratio).

Features: Broadband, Low Noise; **Applications:** Wireless, Receiver, Radar, Laboratory Test.

How To Order:

QLAV-W-X-Y-Z

Modules: Blank, Systems: S
 Start Frequency (MHz)
 Stop Frequency (MHz)
 Noise Figure * 10 (dB)
 Gain (dB)

Examples: To order a low noise amplifier module, 1~18GHz, gain 45dB, noise figure 3dB, specify QLA-1000-18000-45-30.



Low Noise Amplifier Systems

The sizes in the following table do not include connectors, rack mount brackets, handles.

Part Number	Frequency (GHz)	Noise Figure (dB)	P1dB (dBm)	Gain (dB)	Gain Flatness (dB)	Voltage (V AC)	VSWR	Size* (mm)
QLAS-0.01-15000-12-70	0.00001~15	7	15	12	±3	220	2	136*186*52
QLAS-0.03-40000-54-60	0.00003~40	6	10	54	±3	220	1.8	481.80*350*44.3
QLAS-0.1-500-24-30	0.0001~0.5	3	5	24	±0.5	220	1.5	136*186*52
QLAS-0.1-500-30-30	0.0001~0.5	3	5	30	±0.5	220	1.5	136*186*52
QLAS-10-60-15-50	0.01~0.06	5	23	15	±1.0	220	1.5	136*186*52
QLAS-10-60-16-50	0.01~0.06	5	23	16	±1.5	220	-	136*186*52
QLAS-10-8000-40-20	0.01~8	2	18	40	±3	220	2	136*186*52
QLAS-10-18000-50-40	0.01~18	4(0.2~18GHz)	10	50	±3	220	2.5	136*186*52
QLAS-25-1000-50-13	0.025~1	1.3	14	50	-	220	2.5	136*186*52
QLAS-30-1000-50-13	0.03~1	1.3	15	50	±2.5	220	1.5	136*186*52
QLAS-30-6000-25-50	0.03~6	5	10	25	±3	220	2	136*186*52
QLAS-50-90-15-32	0.05~0.09	3.2	10	15	±0.2	220	1.5	136*186*52
QLAS-50-6000-25-40	0.05~6	4	22	25	±3	220	2	136*186*52
QLAS-100-6000-25-25	0.1~6	2.5	15	25	±2	220	1.5	136*186*52
QLAS-100-12000-25-25	0.1~12	2.5	15	25	±2	220	1.5	136*186*52
QLAS-100-15000-45-22	0.1~15	2.2	5	45	±2.5	220	1.5	136*186*52
QLAS-100-18000-35-40	0.1~18	4	10	35	±3	220	2.5	166*106.4*56.4
QLAS-100-26500-30-55	0.1~26.5	5.5	20	30	±3	220	2	136*186*52
QLAS-200-6000-42-13	0.2~6	1.3	15	42	±2	220	2	136*186*52
QLAS-400-8000-40-25	0.4~8	2.5	14	40	±1.5	110	1.8	166*106.4*56.4
QLAS-500-8000-20-25	0.5~8	2.5	20	20	±2	220	2	166*106.4*56.4

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QLAS-500-18000-40-30	0.5~18	3	10	40	±1.5	220	2.5	136*186*52
QLAS-500-18000-40-35	0.5~18	3.5	12	40	±2	220	2	136*186*52
QLAS-500-18000-45-30	0.5~18	3	10	45	±1.5	220	2.5	136*186*52
QLAS-700-1100-20-25	0.7 ~ 1.1	2.5	13	20	±1	220	1.5	136*186*52
QLAS-700-1100-25-25	0.7 ~ 1.1	2.5	13	25	±1.5	220	-	136*186*52
QLAS-700-8000-30-25	0.7~8	2.5	13	30	±2	220	2	161*135*50
QLAS-800-18000-25-35	0.8 ~ 18	3.5	13	25	±2.5	220	2	136*186*52
QLAS-950-2150-20-20	0.95 ~ 2.15	2	15	20	±1.5	220	2	136*186*52
QLAS-1000-2000-30-20	1 ~ 2	2	15	30	±1.5	220	2	136*186*52
QLAS-1000-5000-25-40	1~5	4	20	25	-	110	1.8	166*106.4*56.4
QLAS-1000-12000-45-30	1 ~ 12	3	10	45	±2	220	1.5	136*186*52
QLAS-1000-18000-30-40	1 ~ 18	4	10	30	±1.5	220	1.5	136*186*52
QLAS-1000-18000-40-30	1~18	3	15	40	±2	220	2	166*106.4*56.4
QLAS-1000-18000-40-32	1~18	3.2	8	40	±2	220	1.8	136*186*52
QLAS-1000-18000-42-25	1~18	2.5	10	45	±1.5	220	2	136*186*52
QLAS-1000-18000-45-30	1~18	3	10	45	±2	220	1.5	136*186*52
QLAS-1000-18000-47-25	1~18	2.5	10	50	±1.5	220	2	136*186*52
QLAS-1000-18000-47-32	1~18	3.2	12	47	-	220	1.8	136*186*52
QLAS-1000-18000-50-30	1~18	3	20	50	±2.5	220	2	136*186*52
QLAS-1000-18000-55-22	1~18	2.2	10	55	±1.5	220	2.5	166*106.4*56.4
QLAS-1000-20000-25-35	1~20	3.5	21	25	±2.5	220	2	136*186*52
QLAS-1000-20000-40-40	1~20	4	16	40	±2	220	1.5	136*186*52
QLAS-1000-40000-40-50	1~40	5	16(Psat)	45	±4.5	220	3	136*186*52
QLAS-2000-8000-20-40	2~8	4	8	20	±1.5	220	1.6	136*186*52
QLAS-2000-18000-18-30	2~18	3	10	18	±1.5	220	1.5	136*186*52
QLAS-2000-18000-28-30	2~18	3	10	28	±1.5	220	1.5	136*186*52
QLAS-2000-26500-25-40	2~26.5	4	8	25	±2	220	1.8	136*186*52
QLAS-3000-12000-24-30	3~12	3	21	24	±1.5	220	1.5	136*186*52
QLAS-2000-26500-48-50	2~26.5	5	10	48	±4.5	220	2.5	136*186*52
QLAS-3000-15000-15-30	3~15	3	8	15	±1.0	220	1.5	136*186*52
QLAS-5400-5900-35-08	5.4~5.9	0.8	10	35	±0.3	220	1.4	136*186*52
QLAS-6000-18000-25-50	6~18	5	10	25	±3	220	2	136*186*52
QLAS-6000-18000-50-30	6~18	3	15	50	±1.5	220	2	166*106.4*56.4
QLAS-6000-40000-45-35	6~40	3.5	10	45	±2.5	220	2	120*90*46.2
QLAS-6000-40000-55-35	6~40	3.5	10	55	±3.5	220	2	166*106.4*56.4
QLAS-8000-12000-15-40	8~12	4	13	15	±0.5	220	1.5	136*186*52
QLAS-8000-18000-20-40	8~18	4	8	20	±1.5	220	1.6	136*186*52
QLAS-8000-26500-15-35	8~26.5	3.5	8	15	±1.5	220	1.5	136*186*52
QLAS-8000-26500-40-65	8~26.5	6.5	18	40	±2	220	2	136*186*52
QLAS-12000-18000-20-40	12~18	4	15	20	±1.5	220	1.5	136*186*52
QLAS-12000-40000-30-40	12~40	4	5	30	±2.5	220	2.5	136*186*52
QLAS-16000-22000-35-25	16~22	2.5	19	35	±1.5	220	2	136*186*52
QLAS-16000-40000-20-35	16~40	3.5	16	20	±2	220	2	136*186*52
QLAS-17500-20200-20-20	17.5~20.2	2	2	20	±0.5	220	1.5	136*186*52
QLAS-17700-21200-30-80	17.7~21.2	8	10	30	±2	220	2	136*186*52
QLAS-18000-26500-30-40	18~26.5	4	5	30	±1	220	1.8	136*186*52
QLAS-18000-26500-45-32	18~26.5	3.2	10	45	±2	220	1.8	136*186*52
QLAS-18000-28000-20-40	18~28	4	8	20	±1.5	220	1.6	136*186*52
QLAS-18000-28000-28-30	18~28	3	5	28	±1.5	220	1.8	136*186*52
QLAS-18000-40000-25-50	18~40	5	10	25	±3	220	2	136*186*52
QLAS-18000-40000-25-50(P15)	18~40	5	15	25	±2.5	220	2	136*186*52
QLAS-18000-40000-30-50(P20)	18~40	5	20	30	±2.5	220	2.5	136*186*52
QLAS-18000-40000-40-35	18~40	3.5	8	40	±2.5	220	2.5	120*90*46.2
QLAS-18000-40000-40-45	18~40	4.5	6	40	±2.5	220	2	136*186*52
QLAS-18000-40000-45-40	18~40	4	10	45	3.5	220	2	166*106.4*56.4
QLAS-18000-40000-50-45	18~40	4.5	5	50	±3	220	2	136*186*52
QLAS-18000-40000-55-40	18~40	4	10	55	±3.5	110~220	2	166*106.4*56.4
QLAS-20000-32000-40-25	20~32	2.5	10	40	±2.5	220	2	136*186*52
QLAS-23000-25000-35-20	23~25	2	-3	35	±1.5	220	1.8	136*186*52
QLAS-23000-40000-34-35	23~40	3.5	10	34	±2.5	220	2	136*186*52
QLAS-25300-27200-50-18	25.3~27.2	1.8	5	50	±1	220	1.5	136*186*52
QLAS-26000-30000-25-50	26~30	5	20 (Psat)	25	-	110	1.8	166*106.4*56.4

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QLAS-26500-40000-20-30	26.5~40	3	5	20	±1.5	220	1.5	136*186*52
QLAS-39000-41000-30-32	39~41	3.2	10	30	±0.5	220	2	136*186*52
QLAS-40000-53000-40-50	40~53	5	10	40	±2	220	2	136*186*52
QLAS-40000-60000-35-70	40~60	7	20	35	±2.5	220	2	214*218*48
QLAS-50000-59000-40-55	50~59	5.5	10	40	±1	220	2	136*186*52
QLAS-57000-67000-30-50	57~67	5	10	30	-	220	2	136*186*52