

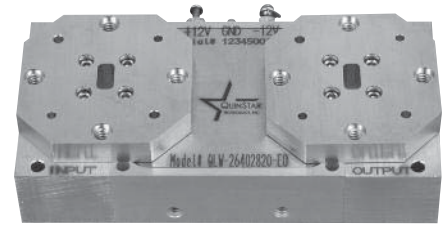


# Millimeter-Wave Broadband Low Noise Amplifiers

QLW

## Characteristics

- ◆ Offered over 2-110 GHz
- ◆ State-of-the-art Low Noise Performance
- ◆ Low Power Consumption



## Product Description

QuinStar Technology's series QLW low noise amplifiers utilize advanced MMICs and discrete devices for state-of-the-art noise performance in the 2-110 GHz frequency range. The majority of these amplifiers offer greater than a standard waveguide bandwidth, and use appropriate coaxial or waveguide interfaces. The standard amplifier housing offers a wide range and combinations of input and output coaxial connectors or waveguide ports. For 18 to 40 GHz amplifiers, we offer 2.9 mm coaxial connectors, and

2.4 mm for 40-50 GHz and 1.9 mm connector for frequencies beyond. Any valid combination of coaxial and waveguide input and output ports can be supplied, if desired. These low noise amplifiers are useful in EW systems, test equipment, and instrumentation systems where low system noise figure is very important. A wide range of optional features is available for these amplifiers. Please see page 39 for details of these options.

## Specifications

Model Number	Frequency Range (GHz)	Noise Figure (dB)	Gain (dB)	Gain Flatness (±dB)	Current (mA) max. at 12V	Outline (pages 40-45)
QLW-00504521	2-50	4.5*	21	2*	150	J
QLW-00504533	2-50	4.5*	33	2.5*	200	J
QLW-14273516	14-27	3.5	16	2	150	J
QLW-14273528	14-27	3.5	28	2.1	200	J
QLW-14273540	14-27	3.5	40	2.2	250	J
QLW-15262820	15-26	2.8	20	2.75	100	J,E
QLW-15262840	15-26	2.8	40	3	180	J,E
QLW-15262855	15-26	2.8	55	3.25	300	J
QLW-18262520	18-26.5	2.5	20	2.5	100	J,E,G,L,S
QLW-18262530	18-26.5	2.5	30	2.5	170	J,E,G,L,S
QLW-18262540	18-26.5	2.5	40	2.5	230	J,G,L,S
QLW-10333510	10-33	3.5	10	2	100	J, E
QLW-10333522	10-33	3.5	22	2.1	150	J
QLW-10333535	10-33	3.5	35	2.2	200	J
QLW-18404510	18-40	4.5*	10	2	100	J, E
QLW-18404520	18-40	4.5*	20	2.1	150	J
QLW-18404530	18-40	4.5*	30	2.2	200	J
QLW-18404540	18-40	4.5*	40	2.3	260	J
QLW-24403328	24-40	3.3	28	3.5	180	J,E
QLW-24403336	24-40	3.3	36	3.5	250	J



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QLW-36464815	36-46	4.8	15	2.25	100	J,E,G,L,S
QLW-36464826	36-46	4.8	26	2.5	180	J,E,G,L,S
QLW-36464835	36-46	4.8	35	2.5	250	J,G,L,S
QLW-33505510	33-50	5.5*	10	2.5*	100	J,G,L,S
QLW-33505520	33-50	5.5*	20	2.6	150	J,G,L,S
QLW-33505530	33-50	5.5*	30	2.7	200	J,G,L,S
QLW-33505540	33-50	5.5*	40	2.8	260	J,G,L,S
QLW-48605016	48-60	5*	16	3	200	J,G,L,S
QLW-48605025	48-60	5*	25	3.25	300	J,G,L,S
QLW-48605035	48-60	5*	35	3.5	400	J,G,L,S
QLW-50754515	50-75	4.5*	15	3	100	P1,I1
QLW-50754530	50-75	4.5*	30	3.5	200	P1,I2
QLW-60905518	60-90	5.5*	18	3.5	80	P1, I1
QLW-60905530	60-90	5.5*	30	3.5	120	P1, I2
QLW-75B05512	75-110	5.5*	12	3.5*	80	P1, I1
QLW-75B05522	75-110	5.5*	22	5*	120	P1,I2

\* = typical value

## Ordering Information

