

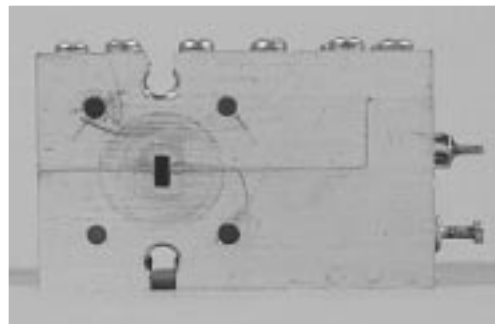


..... Millimeter-Wave Low Noise Amplifiers

QLN

Characteristics

- ◆ Offered Over 18-95 GHz Range
- ◆ State-of-the-art Low Noise Performance
- ◆ Wide Selection of Gain and Noise Figures
- ◆ Low Power Consumption



Product Description

QuinStar Technology's series QLN low noise amplifiers utilize advanced MMICs and discrete devices for state-of-the-art low noise performance in the 18-95 GHz frequency range. These amplifiers operate over up to 4 GHz bandwidth at most frequency ranges of commercial or military interest. Wide range of noise figures and gains are offered over each frequency interval.

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. Appropriate waveguide input and/or output ports are offered for the entire range from 18 to 96 GHz. Any valid combination of coaxial and waveguide input and output ports can be supplied, if desired. Integral waveguide isolators are also available for improved input and output matches.

Specifications

Model Number	Frequency Range (GHz)	Noise Figure (dB)	Gain (dB)	Current (mA) max.	Outline (pages 31-32)
QLN-ABCD2520-XX	18-22 GHz	2.5	20	100	J,E,G
QLN-ABCD2540-XX	18-22 GHz	2.5	40	180	J,E,G
QLN-ABCD2550-XX	18-22 GHz	2.5	50	250	J,G
QLN-ABCD2520-XX	22-26 GHz	2.5	20	100	J,E,G
QLN-ABCD2540-XX	22-26 GHz	2.5	40	180	J,E,G
QLN-ABCD2550-XX	22-26 GHz	2.5	50	250	J,G
QLN-ABCD2822-XX	26-32 GHz	2.8	22	100	J,E,G
QLN-ABCD2834-XX	26-32 GHz	2.8	34	150	J,E,G
QLN-ABCD2846-XX	26-32 GHz	2.8	46	250	J,G
QLN-ABCD2822-XX	33-36 GHz	2.8	22	100	J,E,G
QLN-ABCD2834-XX	33-36 GHz	2.8	34	150	J,E,G
QLN-ABCD2846-XX	33-36 GHz	2.8	46	250	J,G
QLN-ABCD2822-XX	37-40 GHz	2.8	22	100	J,E,G
QLN-ABCD2834-XX	37-40 GHz	2.8	34	150	J,E,G
QLN-ABCD2846-XX	37-40 GHz	2.8	46	250	J,G
QLN-ABCD3215-XX	38-42 GHz	3.2	15	100	J,E,G
QLN-ABCD3225-XX	38-42 GHz	3.2	25	150	J,E,G
QLN-ABCD3235-XX	38-42 GHz	3.2	35	250	J,G
QLN-ABCD3245-XX	38-42 GHz	3.2	45	350	J,G
QLN-ABCD4518-XX	42-46 GHz	4.5	18	100	J,E,G
QLN-ABCD4527-XX	42-46 GHz	4.5	27	150	J,G
QLN-ABCD4537-XX	42-46 GHz	4.5	37	250	J,G



Specifications

Model Number	Frequency Range (GHz)	Noise Figure (dB)	Gain (dB)	Current (mA) max.	Outline (pages 31-32)
QLN-ABCD4818-XX	50-54 GHz	4.8	18	100	J,P,I
QLN-ABCD4836-XX	50-54 GHz	4.8	36	180	P,I
QLN-ABCD4818-XX	54-58 GHz	4.8	18	100	P,I
QLN-ABCD4836-XX	54-58 GHz	4.8	36	180	P,I
QLN-ABCD4818-XX	58-62 GHz	4.8	18	100	P,I
QLN-ABCD4836-XX	58-62 GHz	4.8	36	180	P,I
QLN-ABCD4518-XX	62-66 GHz	4.5	18	100	P,I
QLN-ABCD4536-XX	62-66 GHz	4.5	36	180	P,I
QLN-ABCD6015-XX	74-77 GHz	6.0	15	220	P,I
QLN-ABCD6015-XX	92-95 GHz	6.0	15	80	P,I
QLN-ABCD6028-XX	92-95 GHz	6.0	28	150	P,I

Ordering Information

