

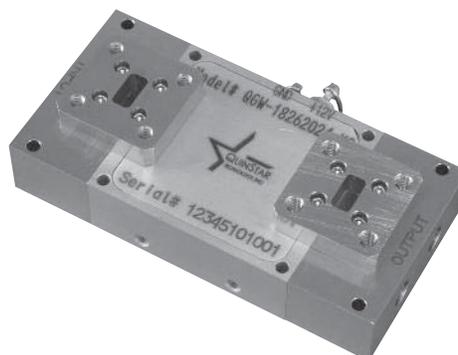


Millimeter-Wave Broadband Amplifiers

QGW

Characteristics

- ◆ Offered Over 2-110 GHz
- ◆ Broadband Performance
- ◆ Wide range of power and Gain options
- ◆ Choices of packages and interfaces



Product Description

QuinStar Technology's series QGW broadband general purpose, high gain-amplifiers are ideally suited for power amplification over a wide bandwidth with gain and output power to suit virtually any application in the 2 to 110 GHz region. The amplifiers are offered with gains ranging from 10 to 50 dB, and nominal output power of 13 to 20 dBm, across the entire operating frequency band.

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 coaxial or waveguide input and/or output ports are offered for the entire range from 2 to 110 GHz. Any valid combination of coaxial and waveguide input and output ports can be supplied, if desired. 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)	Power P1dB (dBm)	Gain (dB)	Gain Flatness (±dB)	Voltage (V)	Current (A) typ.	-Voltage (V)	-Current (mA), max.	Outline Pages 40-45
QGW-02301312	2-30	13	12	2	12	200	-12	50	J
QGW-02301324	2-30	13	24	2	12	250	-12	50	J
QGW-02301336	2-30	13	36	2	12	300	-12	50	J
QGW-02301348	2-30	13	48	2	12	350	-12	50	J
QGW-02301712	2-30	17	12	2	12	250	-12	50	J
QGW-02301724	2-30	17	24	2	12	300	-12	50	J
QGW-02301736	2-30	17	36	2	12	350	-12	50	J
QGW-02301748	2-30	17	48	2	12	400	-12	50	J
QGW-02302012	2-30	20	12	2	12	300	-12	50	J
QGW-02302024	2-30	20	24	2	12	350	-12	50	J
QGW-02302036	2-30	20	36	2	12	400	-12	50	J
QGW-02302048	2-30	20	48	2	12	450	-12	50	J
QGW-18401415	18-40	14	15	2.7	12	180	-12	50	E,J
QGW-18401423	18-40	14	23	2.8	12	230	-12	50	E,J
QGW-18401431	18-40	14	31	2.9	12	280	-12	50	J
QGW-18401439	18-40	14	39	3	12	330	-12	50	J
QGW-18401715	18-40	17	15	2.7	12	400	-	-	E,J
QGW-18401723	18-40	17	23	2.8	12	460	-	-	E,J
QGW-18401731	18-40	17	31	2.9	12	530	-	-	J
QGW-18401739	18-40	17	39	3	12	600	-	-	J
QGW-18402015	18-40	20	15	2.7	12	800	-	-	J
QGW-18402023	18-40	20	23	2.8	12	850	-	-	J



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Amplifier Products 1

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QGW-18402031	18-40	20	31	2.9	12	900	-	-	J
QGW-18402039	18-40	20	39	3	12	950	-	-	J
QGW-33491312	33-49	13	12	2	12	500	-12	50	J,G,L,S
QGW-33491323	33-49	13	23	2	12	550	-12	50	J,G,L,S
QGW-33491334	33-49	13	34	2.1	12	600	-12	50	J,G,L,S
QGW-33491345	33-49	13	45	2.2	12	650	-12	50	J,G,L,S
QGW-33491712	33-49	17	12	2	12	500	-12	50	J,G,L,S
QGW-33491723	33-49	17	23	2	12	550	-12	50	J,G,L,S
QGW-33491734	33-49	17	34	2.1	12	600	-12	50	J,G,L,S
QGW-33491745	33-49	17	45	2.2	12	650	-12	50	J,G,L,S
QGW-15501312	15-50	13	12	2.5t	12	180	-	-	J
QGW-15501324	15-50	13	24	2.6t	12	230	-	-	J
QGW-15501336	15-50	13	36	2.7t	12	280	-	-	J
QGW-15501348	15-50	13	48	2.8t	12	320	-	-	J
QGW-33501710	33-50	17s	10	2.5t	12	360	-	-	J,G,L,S
QGW-33501722	33-50	17s	22	2.6t	12	410	-	-	J,G,L,S
QGW-33501736	33-50	17s	36	2.7t	12	460	-	-	J,G,L,S
QGW-33501748	33-50	17s	48	2.8t	12	510	-	-	J,G,L,S
QGW-45571315	45-57	13t	15	2.5	12	180	-	-	J,G,L,S
QGW-45571325	45-57	13t	25	2.6	12	240	-	-	J,G,L,S
QGW-45571335	45-57	13t	35	2.7	12	300	-	-	J,G,L,S
QGW-45571345	45-57	13t	45	2.8	12	350	-	-	J,G,L,S
QGW-45571615	45-57	16t	15	2.5	12	310	-	-	J,G,L,S
QGW-45571625	45-57	16t	25	2.6	12	370	-	-	J,G,L,S
QGW-45571635	45-57	16t	35	2.7	12	430	-	-	J,G,L,S
QGW-45571645	45-57	16t	45	2.8	12	480	-	-	J,G,L,S
QGW-45571915	45-57	19s	15	2.5	12	360	-	-	A,R,M,T
QGW-45571925	45-57	19s	25	2.6	12	480	-	-	A,R,M,T
QGW-45571935	45-57	19s	35	2.7	12	600	-	-	A,R,M,T
QGW-45571945	45-57	19s	45	2.8	12	700	-	-	A,R,M,T
QGW-50751315	50-75	13s	15t	3.5t	8	200	-	-	P1
QGW-50751330	50-75	13s	30t	3.5t	8	270	-	-	P1
QGW-50751515	50-75	15s	15t	3.5t	8	400	-	-	C1
QGW-50751530	50-75	15s	30t	3.5t	8	470	-	-	C1
QGW-50751715	50-75	17s	15t	3.5t	8	800	-	-	C2
QGW-50751730	50-75	17s	30t	3.5t	8	950	-	-	C2
QGW-50662015	50-66	20	15	3.5t	8	1100	-	-	C1
QGW-50662030	50-66	20	30	3.6	8	1200	-	-	C1
QGW-70781715	70-78	17	15	2.5t	8	500	-	-	P1
QGW-70781725	70-78	17	25	3t	8	800	-	-	P1
QGW-70782015	70-78	20s	15	2.5t	8	1000	-	-	C1
QGW-70782025	70-78	20s	25	3t	8	1600	-	-	C1
QGW-81911715	81-91	17	15	2.5t	5	300	-	-	P1
QGW-81911730	81-91	17	30	3t	5	500	-	-	P1
QGW-81912014	81-91	20s	14	2.5t	5	300	-	-	C1



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QGW-81912030	81-91	20s	30	3t	5	500	-	-	C1

s = saturated power
t = typical value

Ordering Information

