



Microwave Broadband General Purpose Amplifiers

QGJ

Characteristics

- ◆ Offered over 0.5-18 GHz
- ◆ Wide range of Gain Options
- ◆ Compact Package



Product Description

QuinStar Technology's series QGJ broadband high gain general purpose amplifiers are ideally suited for a very wideband amplification. The amplifiers are offered with

nominal gains in 10-50 dB range, and nominal output 1 dB compression point power (P-1 dB) in 13-20 dBm range.

Specifications

Model Number	Frequency Range (GHz)	P1dB (dBm)	Gain (dB)	Gain Flatness (±dB)	Current (mA) max., at 12V	Outline (pages 31-32)
QGJ-06181310-XX	6-18 GHz	13	10	1.8	100	H1, J
QGJ-06181320-XX	6-18 GHz	13	20	1.9	180	H2, J
QGJ-06181330-XX	6-18 GHz	13	30	2.0	240	H3, J
QGJ-06181340-XX	6-18 GHz	13	40	2.2	300	H4, J
QGJ-06181710-XX	6-18 GHz	17	10	1.8	100	H1, J
QGJ-06181720-XX	6-18 GHz	17	20	1.9	180	H2, J
QGJ-06181730-XX	6-18 GHz	17	30	2.0	240	H3, J
QGJ-06181740-XX	6-18 GHz	17	40	2.2	300	H4, J
QGJ-06182017-XX	6-18 GHz	20	17	2.5	250	J
QGJ-06182027-XX	6-18 GHz	20	27	2.6	330	J
QGJ-06182037-XX	6-18 GHz	20	37	2.7	410	J
QGJ-06182047-XX	6-18 GHz	20	47	2.8	500	J
QGJ-00121314-XX	.5-12 GHz	13	14	1.8	200	J,E
QGJ-00121324-XX	.5-12 GHz	13	24	2.0	280	J
QGJ-00121334-XX	.5-12 GHz	13	34	2.5	340	J
QGJ-00121713-XX	.5-12 GHz	17	13	1.8	200	J
QGJ-00121723-XX	.5-12 GHz	17	23	2.0	300	J
QGJ-00121733-XX	.5-12 GHz	17	33	2.3	400	J
QGJ-00121743-XX	.5-12 GHz	17	43	2.5	500	J
QGJ-00122013-XX	.5-12 GHz	20	13	1.8	250	J
QGJ-00122023-XX	.5-12 GHz	20	23	2.0	350	J
QGJ-00122033-XX	.5-12 GHz	20	33	2.3	450	J
QGJ-00122043-XX	.5-12 GHz	20	43	2.5	500	J
QGJ-02081310-XX	2-8 GHz	13	10	1.8	100	J
QGJ-02081320-XX	2-8 GHz	13	20	2.0	160	J
QGJ-02081330-XX	2-8 GHz	13	30	2.2	220	J
QGJ-02081340-XX	2-8 GHz	13	40	2.5	300	J



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Specifications

Model Number	Frequency Range (GHz)	P1dB (dBm)	Gain (dB)	Gain Flatness (±dB)	Current (mA) max., at 12V	Outline (pages 31-32)
QGJ-02081710-XX	2-8 GHz	17	10	1.8	100	J
QGJ-02081720-XX	2-8 GHz	17	20	2.0	160	J
QGJ-02081730-XX	2-8 GHz	17	30	2.2	220	J
QGJ-02081740-XX	2-8 GHz	17	40	2.4	300	J
QGJ-02061310-XX	2-6 GHz	13	10	1.8	100	J
QGJ-02061320-XX	2-6 GHz	13	20	2.0	160	J
QGJ-02061330-XX	2-6 GHz	13	30	2.3	220	J
QGJ-02061340-XX	2-6 GHz	13	40	2.5	300	J
QGJ-02061710-XX	2-6 GHz	17	10	1.8	100	J
QGJ-02061720-XX	2-6 GHz	17	20	2.0	160	J
QGJ-02061730-XX	2-6 GHz	17	30	2.3	220	J
QGJ-02061740-XX	2-6 GHz	17	40	2.5	300	J
QGJ-02062018-XX	2-6 GHz	20	18	1.8	500	J
QGJ-02062028-XX	2-6 GHz	20	28	2.0	580	J
QGJ-02062038-XX	2-6 GHz	20	38	2.3	660	J
QGJ-02062048-XX	2-6 GHz	20	48	2.5	740	J
QGJ-00021312-XX	.5-2 GHz	13	12	1.0	100	J
QGJ-00021324-XX	.5-2 GHz	13	24	1.3	170	J
QGJ-00021336-XX	.5-2 GHz	13	36	1.5	210	J
QGJ-00021612-XX	.5-2 GHz	16	12	1.0	100	J
QGJ-00021624-XX	.5-2 GHz	16	24	1.3	170	J
QGJ-00021636-XX	.5-2 GHz	16	36	1.5	210	J
QGJ-00022013-XX	.5-2 GHz	20	13	1.5	150	J
QGJ-00022025-XX	.5-2 GHz	20	25	1.8	200	J
QGJ-00022037-XX	.5-2 GHz	20	37	2.0	270	J
QGJ-00022049-XX	.5-2 GHz	20	49	2.3	350	J

Ordering Information

Model Number **QGJ - ABCD EF GH - IJ**

frequency range, minimum-maximum, in GHz (use 00 for minimum freq. below 1 GHz)

P1dB (Power at 1dB Gain Compression Point) in dBm

outline designation (see pages 31-32)

gain, in dB