



Microwave Broadband Power Amplifiers

QPJ

Characteristics

- ◆ Offered over 1-18 GHz
- ◆ Wide Range of Gains & Output Power Options
- ◆ Compact Package

Product Description

QuinStar Technology's series QPJ power amplifiers utilize advanced MMICs and discrete devices for state-of-the-art power performance in the 2-18 GHz frequency range. A wide range of gain values is offered for significantly high

power output levels. These amplifiers offer gain in the 18-48 dB range, with output power from 24-38 dBm available. The baseline amplifier is provided with coaxial input/output ports.



Specifications

Model Number	Frequency Range (GHz)	Power (dBm)	Gain (dB)	Gain Flatness (±dB)	Voltage (V)	Current (A) max.	Outline (pages 31-32)
QPJ-06182310-XX	6-18	23	10	2.0	12	0.6	J
QPJ-06182320-XX	6-18	23	20	2.3	12	0.65	J
QPJ-06182330-XX	6-18	23	30	2.5	12	0.7	J
QPJ-06182340-XX	6-18	23	40	2.8	12	0.75	J
QPJ-06182720-XX	6-18	27	20	3.0	12	0.9	J
QPJ-06182730-XX	6-18	27	30	3.3	12	0.95	J
QPJ-06182740-XX	6-18	27	40	3.5	12	1	J
QPJ-06183020-XX	6-18	30	20	3.0	12	1.3	A
QPJ-06183030-XX	6-18	30	30	3.3	12	1.4	A
QPJ-06183040-XX	6-18	30	40	3.5	12	1.5	A
QPJ-06183320-XX	6-18	33	20	3.0	12	3	A
QPJ-06183330-XX	6-18	33	30	3.3	12	3.1	A
QPJ-06183340-XX	6-18	33	40	3.5	12	3.2	A
QPJ-06183620-XX	6-18	36	20	3.0	12	6	A
QPJ-06183630-XX	6-18	36	30	3.3	12	6.1	A
QPJ-06183640-XX	6-18	36	40	3.5	12	6.2	A
QPJ-06183818-XX	6-18	38	18	3.0	10	12	B
QPJ-06183828-XX	6-18	38	28	3.3	10	12.2	B
QPJ-06183838-XX	6-18	38	38	3.5	10	12.3	B
QPJ-06183848-XX	6-18	38	48	3.8	10	12.4	B
QPJ-06184016-XX	6-18	40	16	3.0	10	20	*
QPJ-06184026-XX	6-18	40	26	3.3	10	22	*
QPJ-06184036-XX	6-18	40	36	3.5	10	23	*
QPJ-06184046-XX	6-18	40	46	3.8	10	25	*
QPJ-02082310-XX	2-8	23	10	2.0	12	0.5	J
QPJ-02082320-XX	2-8	23	20	2.1	12	0.6	A
QPJ-02082710-XX	2-8	27	10	2.0	15	0.8	A



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Model Number	Frequency Range (GHz)	Power (dBm)	Gain (dB)	Gain Flatness (±dB)	Voltage (V)	Current (A) max.	Outline (pages 31-32)
QPJ-02062318-XX	2-6	23	18	2.0	12	0.5	J
QPJ-02062328-XX	2-6	23	28	2.1	12	0.58	J
QPJ-02062338-XX	2-6	23	38	2.2	12	0.66	J
QPJ-02062348-XX	2-6	23	48	2.3	12	0.74	J
QPJ-02062718-XX	2-6	27	18	2.0	12	0.6	J
QPJ-02062728-XX	2-6	27	28	2.1	12	0.68	J
QPJ-02062738-XX	2-6	27	38	2.2	12	0.76	J
QPJ-02062748-XX	2-6	27	48	2.3	12	0.84	J
QPJ-02063017-XX	2-6	30	17	2.0	12	1	J
QPJ-02063027-XX	2-6	30	27	2.1	12	1.1	J
QPJ-02063037-XX	2-6	30	37	2.2	12	1.2	J
QPJ-02063047-XX	2-6	30	47	2.3	12	1.3	J
QPJ-02063317-XX	2-6	33	17	2.0	12	2	A
QPJ-02063327-XX	2-6	33	27	2.1	12	2.4	A
QPJ-02063337-XX	2-6	33	37	2.2	12	2.5	A
QPJ-02063347-XX	2-6	33	47	2.3	12	2.6	A
QPJ-02063615-XX	2-6	36	15	2.1	12	4	B
QPJ-02063625-XX	2-6	36	25	2.3	12	4.8	B
QPJ-02063635-XX	2-6	36	35	2.4	12	5	B
QPJ-02063645-XX	2-6	36	45	2.5	12	5.2	B
QPJ-02063815-XX	2-6	38	15	2.1	12	8	*
QPJ-02063825-XX	2-6	38	25	2.3	12	9.6	*
QPJ-02063835-XX	2-6	38	35	2.5	12	10	*
QPJ-02063845-XX	2-6	38	45	2.8	12	10.5	*

*Custom outline.

Ordering Information

Model Number **QPJ - 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