



Microwave Broadband Power Amplifiers

QPJ

Characteristics

- ◆ 1-18 GHz Coverage
- ◆ Wide Range of Gain & 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 10-54 dB range, with output power from 23-44 dBm available. The baseline amplifier is provided with coaxial input/output ports.

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
QPJ-00182310	0.5-18	23	10	2	12	0.6	-	-	J
QPJ-00182324	0.5-18	23	24	2.25	12	0.7	-	-	J
QPJ-00182338	0.5-18	23	38	2.5	12	0.8	-	-	J
QPJ-02182714	2-18	27	14	2	15	1.4	-	-	J
QPJ-02182727	2-18	27	27	2.25	15	1.7	-	-	J
QPJ-02182741	2-18	27	41	2.5	15	1.8	-	-	J
QPJ-02083014	2-8	30	14	2	15	1.4	-	-	J
QPJ-02083027	2-8	30	27	2.5	15	1.7	-	-	J
QPJ-02083041	2-8	30	41	2.5	15	1.8	-	-	J
QPJ-02083314	2-8	33	14	2.5	12	3	-12	50	A
QPJ-02083325	2-8	33	25	2.5	12	3.3	-12	50	A
QPJ-02083340	2-8	33	40	2.5	12	3.4	-12	50	A
QPJ-02083354	2-8	33	54	2.5	12	3.5	-12	50	A
QPJ-02083611	2-8	36	11	2.5	12	4.5	-12	50	A
QPJ-02083625	2-8	36	25	2.5	12	4.8	-12	50	A
QPJ-02083640	2-8	36	40	2.5	12	4.9	-12	50	A
QPJ-02083654	2-8	36	54	2.5	12	5	-12	50	A
QPJ-02083810	2-8	38	10	2.5	12	9	-12	100	A
QPJ-02083825	2-8	38	25	2.5	12	9.5	-12	100	A
QPJ-02083840	2-8	38	40	2.5	12	9.7	-12	100	A
QPJ-02083854	2-8	38	54	2.5	12	10	-12	100	A
QPJ-02084025	2-8	40	25	2.5	12	19	-12	100	B
QPJ-02084040	2-8	40	40	2.5	12	19.5	-12	100	B
QPJ-02084054	2-8	40	54	2.5	12	20	-12	100	B
QPJ-02064225	2-6	42	25	2.5	12	9.5	-12	50	B
QPJ-02064240	2-6	42	40	2.5	12	9.7	-12	50	B
QPJ-02064254	2-6	42	54	2.5	12	9.8	-12	50	B



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QPJ-02064425	2-6	44	25	2.5	12	19	-12	100	B
QPJ-02064440	2-6	44	40	2.5	12	19.5	-12	100	B
QPJ-02064454	2-6	44	54	2.5	12	19.8	-12	100	B
QPJ-06183020	6-18	30	20	3	12	1.5t	-	-	J, A
QPJ-06183034	6-18	30	34	3.25	12	1.55	-	-	J, A
QPJ-06183048	6-18	30	48	3.5	12	1.6	-	-	J, A
QPJ-06183320	6-18	33	20	3	12	3.5	-	-	A
QPJ-06183334	6-18	33	34	3.25	12	3.9	-	-	A
QPJ-06183348	6-18	33	48	3.5	12	4	-	-	A
QPJ-06183619	6-18	36	19	3	12	7	-	-	A
QPJ-06183633	6-18	36	33	3.25	12	7.5	-	-	A
QPJ-06183647	6-18	36	47	3.5	12	8	-	-	A
QPJ-06183818	6-18	38	18	3.5	12	14	-	-	B
QPJ-06183832	6-18	38	32	3.5	12	15	-	-	B
QPJ-06183846	6-18	38	46	3.5	12	16	-	-	B
QPJ-06184016	6-18	40	16	3.5	12	17	-	-	B
QPJ-06184030	6-18	40	30	3.5	12	17.5	-	-	B
QPJ-06184045	6-18	40	45	3.5	12	18	-	-	B

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 40-45)

gain, in dB