

SIM910 JFET Preamp

Gain	Slew Rate (V/ μ s)		
	output	RTI	FPBW
1	0.42	0.42	6.7E+04
2	0.91	0.46	7.2E+04
5	1.96	0.39	6.2E+04
10	2.43	0.24	3.9E+04
20	2.43	0.12	3.9E+04
50	2.5	0.05	4.0E+04
100	2.5	0.03	4.0E+04

Slew limited OUTPUT amplitude (V)				
50 kHz	100 kHz	200 kHz	500 kHz	1 MHz
1.33	0.67	0.33	0.13	0.07
2.90	1.45	0.72	0.29	0.14
6.25	3.12	1.56	0.62	0.31
7.73	3.87	1.93	0.77	0.39
7.73	3.87	1.93	0.77	0.39
7.96	3.98	1.99	0.80	0.40
7.96	3.98	1.99	0.80	0.40

Gain	Slew limited INPUT amplitude (mV)				
	50 kHz	100 kHz	200 kHz	500 kHz	1 MHz
1	1332	666	333	133	67
2	1450	725	362	145	72
5	1249	625	312	125	62
10	773	387	193	77	39
20	387	193	97	39	19
50	159	80	40	16	8
100	80	40	20	8	4

SIM911 BJT Preamp

Gain	Slew Rate (V/ μ s)		
	output	RTI	FPBW
1	0.23	0.23	3.7E+04
2	0.46	0.23	3.7E+04
5	1.14	0.23	3.6E+04
10	2.26	0.23	3.6E+04
20	2.55	0.13	4.1E+04
50	2.55	0.05	4.1E+04
100	2.55	0.03	4.1E+04

Slew limited OUTPUT amplitude (V)				
50 kHz	100 kHz	200 kHz	500 kHz	1 MHz
0.74	0.37	0.18	0.07	0.04
1.47	0.74	0.37	0.15	0.07
3.63	1.82	0.91	0.36	0.18
7.18	3.59	1.79	0.72	0.36
8.13	4.07	2.03	0.81	0.41
8.13	4.07	2.03	0.81	0.41
8.13	4.07	2.03	0.81	0.41

Gain	Slew limited INPUT amplitude (mV)				
	50 kHz	100 kHz	200 kHz	500 kHz	1 MHz
1	735	368	184	74	37
2	735	368	184	74	37
5	727	363	182	73	36
10	718	359	179	72	36
20	407	203	102	41	20
50	163	81	41	16	8
100	81	41	20	8	4

Notes:

- Amplitudes are zero-to-peak, (ie, 50% of peak-to-peak).; $V = A \times \sin(2 \pi f t)$
- Maximum slew rate for sine wave at frequency "f" and amplitude A given by $(dV/dt) = 2 \pi f A$
- FPBW = Full-Power Bandwidth (ie, maximum frequency for ± 1 V input or ± 10 V output)
- All values shown are typical