

## DESKTOP PREAMPLIFIERS

### NSP SERIES

#### FEATURES

- Broadband frequency 0.1–40 GHz
- Fixed gain or variable up to 15 dB
- Built-in power supply
- SMA-input/output connectors

#### OPTIONS

- Dual output, input limiter, DC block and temperature compensation
- Various combinations of frequency, bandwidth, gain, noise figure, power and VSWR
- Other connector types available



MODEL NUMBER	FREQUENCY RANGE (GHz)	GAIN (dB, Min.)	GAIN FLATNESS (±dB, Max.)	* NOISE FIGURE (dB, Max.)	VSWR IN/OUT	* OUTPUT POWER @ 1 dB COMP. (dBm, Min.)
<b>LOW-NOISE, VARIABLE GAIN AMPLIFIERS</b>						
NSP1000-N	0.1–10	35	2	2.3	2:1	10
NSP1200-N	0.1–12	32	2.50	2.5	2:1	10
NSP1800-N	0.1–18	30	2.5	4	2.5:1	10
NSP2200-N	0.1–22	30	3.0	4.5	2.5:1	8
<b>MEDIUM POWER, VARIABLE GAIN AMPLIFIERS</b>						
NSP1000-P	0.1–10	35	2.75	5	2:1	20
NSP1200-P	0.1–12	32	2.75	5.5	2:1	20
NSP1800-P	0.1–18	30	3	6.5	2:1	20
NSP2000-P	0.1–20	30	3	7	2:1	20
<b>LOW-NOISE, FIXED GAIN AMPLIFIERS</b>						
NSP1000-NF	0.1–10	28	2.5	2.3	2:1	10
NSP1200-NF	0.1–12	28	2.5	2.5	2:1	10
NSP1800-NF	0.1–18	20	3	3.5	2:1	10
NSP2650-NF	0.1–26.5	18	3	4.5	2.5:1	8
NSP4000-NF	0.1–40**	18	3.5	6	2.5:1	8
<b>MEDIUM POWER, FIXED GAIN</b>						
NSP1000-PF	0.1–10	25	3	5	2:1	20
NSP1200-PF	0.1–12	25	3	5.5	2:1	20
NSP1800-PF	0.1–18	18	3	8	2.5:1	20
NSP2000-PF	0.1–20	18	3	8	2.5:1	20
NSP2200-PF	0.1–22	18	3.5	8	2.5:1	20

\* Specification applies above 500 MHz.

\*\* Split into 2 separate bands (0.1–26.5 GHz and 26.5–40 GHz).

NOTES: Noise figure, VSWR, and output power are specified at maximum gain for variable gain amplifiers.  
Power supply 110/220 V selectable, 40–60 Hz.