

Low Noise Preamplifier with following Specification:

**SA-220F5**

Frequency range	0-80MHz
Input Waveform	AC Coupling , unbalanced Single Ended
Input Impedance	1mega ohm
Input Voltage Noise Density	0.7 nV/(Hz) <sup>1/2</sup> max. (100kHz) 0.5 nV/(Hz) <sup>1/2</sup> typ. (10k to 1MHz)
Input Current Noise Density	200fA/(Hz) <sup>1/2</sup> Typ.(100KHz)
Voltage Gain	46± 0.5dB /50Ω (1 kHz)
Power require	± 15 V ±5%
Harmonic distortion	Not allowed
Output Impedance	50Ω±5%(100KHz)
Maximum Output Voltage	2.0V <sub>P-Pmin</sub> +5%

Low Noise power Source with following Specification:

**LP5393 or LP5394**

**LP5394**

Output Noise	10 μVrms or Lower (typ.) (10Hz to 20 MHz Bandwidth)
Output voltage Stability	±10 ppm /°C (typ.)
Output voltage	0 to ± 15V
Output Current	0.1 A max
Voltage setting range	3V, 5V, 10V or 15V F.S.
	Precisely adjusts the output Voltage using the 10- turn potentiometer

**LP5393**

Output Noise	10 μVrms or Lower (typ.) (10Hz to 20 MHz Bandwidth)
Output voltage Stability	±20 ppm /°C (typ.)
Output voltage	±12 to ± 15V
Output Current	0.1 A max
	1/4-rack sized for easy integration into multi- channel rack systems

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