



This eNewsletter brings you the latest ASSP from our partner [PREMA](#) Semiconductor in Germany. [PREMA](#) provide ASIC services and ASSP.

### 80V-High Voltage Op-Amp PR2201 / PR2202

The new PREMA high voltage operational amplifier PR2201 for supply voltages of up to 80V single supply or up to  $\pm 40V$  with a maximum output current of  $\pm 6mA$  is now available.

The common mode input voltage covers nearly the complete supply voltage range with an excellent common mode and power supply rejection ratio of typical more than 110dB. The output voltage can approximate the positive or negative supply voltage close to 1V. Precision applications, for example in automatic test environments, can be covered with the PR2201 due to a very low typical input bias current of 5pA and an input offset voltage of typical  $\pm 2mV$ , which can be further reduced by external trimming (only PR2201).

The temperature increase of the component remains small in spite of the high voltages due to the low quiescent current of only 500 $\mu A$ . Also fast control circuits may be designed with this PR2201 due to the gain bandwidth product of up to 1MHz and a slew rate of more than 1V/ $\mu s$ . The wide common mode input range allows high impedance measurements of small differential voltages at high potentials, e.g. in Wheatstone bridges. Actors using higher voltages can be driven directly by the IC. The wide input voltage range together with a high differential input voltage of up to 60V make this circuit very suitable for applications with higher voltage spikes like in the automotive field.

PREMA's enhanced ModuS U6 process was essential for development and production of the high voltage operational amplifier PR2201. The PR2202 is an optional component with two integrated op-amps. Samples of both versions are available upon request.

please be free to download the datasheet from PREMA's website under [http://www.prema.com/Application/pr2201\\_e.html](http://www.prema.com/Application/pr2201_e.html)

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Until then, we thank you for your continued support!

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