

# Switchable Gain

| Item #  | Gain Step | Gain<br>w/ Hi-Z<br>Load <sup>a</sup> | Gain<br>w/ 50 Ω<br>Load <sup>a</sup> | Bandwidth | Noise<br>(RMS) | NEP <sup>b</sup>          | Offset (±)       | Output<br>Voltage<br>w/ Hi-Z Load | Output<br>Voltage<br>w/ 50 Ω Load |
|---------|-----------|--------------------------------------|--------------------------------------|-----------|----------------|---------------------------|------------------|-----------------------------------|-----------------------------------|
| PDA20CS | 0         | 1.51 kV/A                            | 0.75 kV/A                            | 10 MHz    | 365 µV         | 51.2 pW/Hz <sup>1/2</sup> | 5 mV (10 mV Max) | 0 to 10 V <sup>c</sup>            | 0 to 5 V <sup>d</sup>             |
|         | 10        | 4.75 kV/A                            | 2.38 kV/A                            | 4 MHz     | 500 µV         | 31.1 pW/Hz <sup>1/2</sup> | 6 mV (10 mV Max) |                                   |                                   |
|         | 20        | 15 kV/A                              | 7.5 kV/A                             | 1.87 MHz  | 340 µV         | 6.54 pW/Hz <sup>1/2</sup> | 6 mV (10 mV Max) |                                   |                                   |
|         | 30        | 47.5 kV/A                            | 23.8 kV/A                            | 660 kHz   | 490 µV         | 3.04 pW/Hz <sup>1/2</sup> | 6 mV (10 mV Max) |                                   |                                   |
|         | 40        | 151 kV/A                             | 75 kV/A                              | 200 kHz   | 590 µV         | 1.14 pW/Hz <sup>1/2</sup> | 6 mV (10 mV Max) |                                   |                                   |
|         | 50        | 475 kV/A                             | 238 kV/A                             | 67 kHz    | 670 µV         | 2.91 pW/Hz <sup>1/2</sup> | 6 mV (10 mV Max) |                                   |                                   |
|         | 60        | 1.5 MV/A                             | 0.75 MV/A                            | 25 kHz    | 880 µV         | 1.76 pW/Hz <sup>1/2</sup> | 6 mV (10 mV Max) |                                   |                                   |
|         | 70        | 4.75 MV/A                            | 2.38 MV/A                            | 4 kHz     | 1.33 mV        | 5.89 pW/Hz <sup>1/2</sup> | 8 mV (12 mV Max) |                                   |                                   |