

Wideband Amplifier 3030



The 3030 is a DC to 1MHz amplifier with a maximum output of 30 volts peak to peak from a 50 Ω source impedance. A 600 Ω output is also provided. The unit can output up to 15 volts peak to peak into a 50 Ω load and can drive up to 300 mA peak into a low impedance or short circuit.

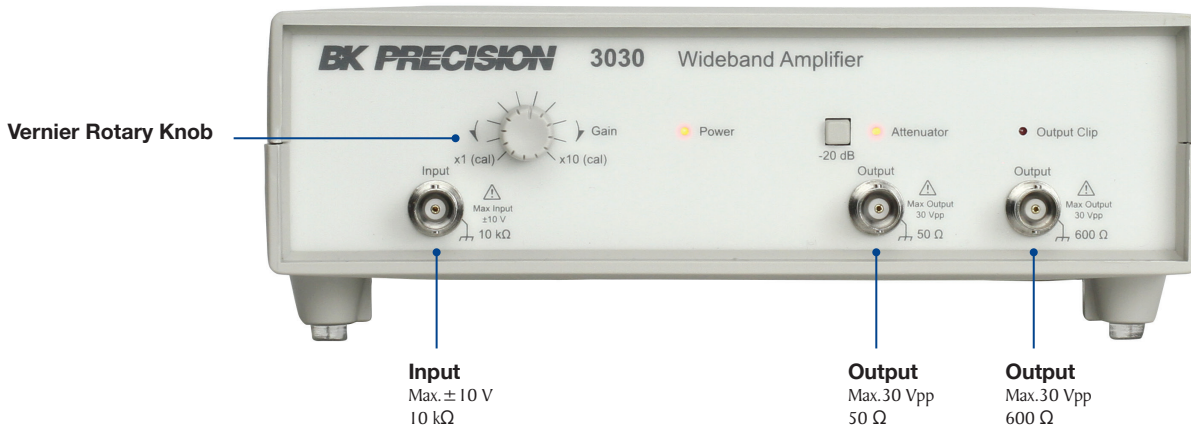
The amplifier gain can be adjusted between x1 and x10 using the Vernier adjustment knob. Additional features include a -20 dB attenuator and LED notifying when a signal is beyond the output limit (clipping).

Applications

- Control system design
- Audio and baseband signal amplification
- Extend the output range of an arbitrary or function generator

Features and benefits

- 30 Vpp output from 50 Ω
- DC to 1 MHz bandwidth
- 50 Ω and 600 Ω outputs
- -20 dB attenuation
- LED notification for clipped signals
- Fully protected output with high current drive



Specifications

Note: All specifications apply to the unit after a temperature stabilization time of 30 minutes over an ambient temperature range of $23\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$. Specifications are tested for a 15 Vpp output into 50 Ω at x10 gain.

| Model | 3030 |
|------------------------------|--|
| Input Specifications | |
| Bandwidth | -3 dB at 1 MHz |
| Flatness | -1 dB at 400 kHz |
| Rise/Fall Time | < 0.5 μs |
| Distortion | < 0.1% at 1 kHz |
| Impedance | 10 k Ω |
| Max Allowable Input Voltage | $\pm 10\text{ V}$ |
| Output Specifications | |
| Gain | Adjustable from x1 to x10 |
| Impedance | 50 Ω and 600 Ω |
| 0 dB | 30 V pk-pk from 50 Ω (15 V into 50 Ω) |
| -20 dB | 3 V pk-pk from 50 Ω (1.5 V into 50 Ω) |
| DC Offset Power | < 5 mV |
| General | |
| Power | 110 V to 120 V AC $\pm 10\%$ 50/60 Hz for model 3030 220 V to 240 V AC $\pm 10\%$ 50/60 Hz for model 3030-220V 20 VA max. Installation Category II |
| Operating Range | +5 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$, 20% to 80% RH. |
| Storage Range | -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ |
| Environmental | Indoor use at altitudes up to 2000 m, Pollution Degree 2 |
| Safety | +5 $^{\circ}\text{C}$ to +40 $^{\circ}\text{C}$, 20% to 80% RH |
| Electrical Safety | Complies with EN61010-1 |
| EMC | Complies with EN61326 |
| Weight | 2.4 lbs (1.1 kg) |
| Dimensions (W x H x D) | 8.3 in x 3.0 in x 9.1 in (210 x 75 x 230 mm) |
| Warranty | 1 year |
| Standard Accessories | Power cord and certificate of calibration |

Ordering Information

| Model | Description |
|-----------|----------------|
| 3030 | 115 V AC input |
| 3030-220V | 220 V AC input |

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