

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.

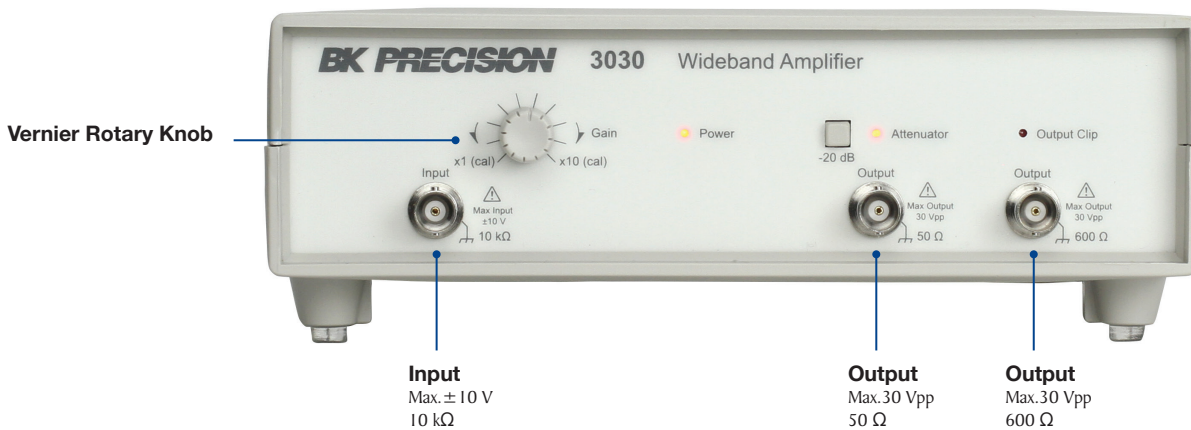
The amplifier gain can be adjusted between x1 and x10 using the Vernier adjustment knob. Additional features include a -20 dB attenuator and LED notifying when a signal is beyond the output limit (clipping).

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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Certification body NSF-ISR
Certificate number 6Z241-IS8



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