

Data Sheet

BK PRECISION**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

About B&K Precision

For more than 70 years, B&K Precision has provided reliable and value-priced test and measurement instruments worldwide.

Our headquarters in Yorba Linda, California houses our administrative and executive functions as well as sales and marketing, design, service, and repair. Our European customers are most familiar with B&K through our French subsidiary, Sefram. Engineers in Asia know us through our B+K Precision Taiwan operation. The independent service centers in Singapore and Brazil service customers in Singapore, Malaysia, Vietnam, Indonesia and South America, respectively.



● B&K Precision group member ● Independent service center ● Service center location

Quality Management System

B&K Precision Corporation is an ISO9001 registered company employing traceable quality management practices for all processes including product development, service, and calibration.

ISO9001:2015

Certification body NSF-ISR
Certificate number 6Z241-IS8

