

# MODEL 3180

## 180Vp-p PXIBus Signal Amplifier

### Specification

#### CONFIGURATION

**Channels:** 1 single-ended output  
**Interface:** PXIBus

#### INPUT CHARACTERISTICS

**No. of channels:** 1  
**Connector:** Front panel BNC  
**Impedance:** 50  
**Coupling:** DC Coupled  
**Damage Level:**  $\pm 25V$   
**Frequency Range:** DC to 1MHz

#### OUTPUT CHARACTERISTICS

##### GENERAL

**Connector:** Front panel BNC  
**Impedance:** 0.1  
**Coupling:** DC Coupled  
**Protection:** Short-circuit, 10 seconds  
**Gain:**  $\times 20^{(2)}$ , fixed  
**Polarity:** Normal  
**Amplitude:** 0 to 180Vp-p ( $\pm 90V$ )  
**Max. Output Current:** 150mA

#### SQUARE WAVE CHARACTERISTICS

**Transition Time:**  $< 1.5\mu s$   
**Aberrations:**  $< 15\%$

#### SINE WAVE CHARACTERISTICS

**Bandwidth:** -3dB  
 Small Signal 1MHz, at 20Vp-p  
 Large Signal 300kHz, at 180Vp-p  
**Accuracy:**  $\pm(2\%$  of full-scale amplitude range + 25mV), Square wave at 1KHz

#### THD:

10 Hz to 10 kHz  $< 0.1\%$   
 10 kHz to 200 kHz  $< 1.2\%$

#### GENERAL

**Voltage:**  $\pm 12, +5V$   
**Power Consumption:** 11W max.  
**Current Consumption:**  
 +12V 0.4A  
 -12V 0.4A  
 +5V 0.1A  
**Signal Ground:** Grounded.  
**Dimensions:** Single slot, PXI  
**Weight:**  
 Without Package 0.5kg  
 Shipping Weight 1kg  
**Temperature:**  
 Operating  $0^{\circ}C$  to  $50^{\circ}C$   
 Storage  $-40^{\circ}C$  to  $70^{\circ}C$   
**Humidity:** 80% RH, non condensing  
**Safety:** CE Marked, IEC61010-1  
**Calibration:** 1 year  
**Warranty (\*):** 3 years standard

#### ORDERING INFORMATION

MODEL	DESCRIPTION
<b>3180-20(1)</b>	180Vp-p PXIBus Single Channel Signal Amplifier
<b>Gain:</b>	10, 15, 20, 25, 50, fixed <sup>(2)</sup>

(1) Standard Configuration  
 (2) Custom gain can be ordered, however, bandwidth may change.  
 (3) Specification is given for the standard configuration only

(\*) Standard warranty in India is 1 year.