

MODELS 9100A/9200A

400Vp-p Single / Dual Channel Signal Amplifiers

Specification

CONFIGURATION

Channels:	
9100A	1 single-ended output
9200A	
Single-ended:	2 separate inputs and two single-ended outputs, bipolar voltage span
Unipolar:	1 separate input, having two output channels with 180° phase offset, unipolar voltage outputs

INPUT CHARACTERISTICS

Connectors:	Front panel BNCs
Impedance:	1M
Coupling:	DC
Amplitude Level:	8Vp-p (±4V peaks)
Frequency Range:	
Full Power	DC to 500 kHz
Unipolar Mode	DC to 200kHz
Max. Output Current:	
9100A	125mA
9200A	100mA

OUTPUT CHARACTERISTICS

GENERAL

Connectors:	Front panel BNCs
Source Impedance:	0.1
Load impedance:	Resistive, recommended for full power bandwidth spec, load resistance limited by the output current ; Capacitive, up to 100pF has minimal effect on bandwidth, 1nF reduces the full power bandwidth to 100kHz
Coupling:	DC
Protection:	Short-circuit, 10 seconds
Gain:	x50, fixed
Polarity:	Output normal; half wave rectified
Amplitude:	
Full Power	400Vp-p (±200V)
Unipolar Mode	0 to +200V

SQUARE WAVE CHARACTERISTICS

Transition Time:	< 1μs
Aberrations:	< 10%

SINE WAVE CHARACTERISTICS

Bandwidth:	-3dB
Small Signal	1.5MHz, at 20Vp-p
Large Signal	500kHz, at 400Vp-p
Accuracy:	(2% of full-scale amplitude range + 50mV), Square wave at 1kHz
THD:	
10 Hz to 50 kHz	< 0.1%
50 kHz to 200 kHz	< 0.8%

OUTPUT MONITOR CHARACTERISTICS

Connectors:	Rear panel BNCs
Source Impedance:	3k
Load impedance:	1M
Ratio:	100:1, ±10%

GENERAL

Voltage Range:	100V/115V/230V
Frequency Range:	47Hz to 63Hz
Power Consumption:	120W
Signal Ground:	Floated to the same level as the source, 250VDC max.
Dimensions:	
With Feet	315 x 102 x 395 mm (WxHxD)
Without Feet	315 x 88 x 395 mm (WxHxD)
Weight:	
Without Package	6.5kg
Shipping Weight	7.5kg
Temperature:	
Operating	0°C to 50°C
Storage	-40°C to 70°C
Humidity:	80% RH, non condensing
Safety:	CE Marked, IEC61010-1
Calibration:	1 years
Warranty⁽¹⁾:	3 years standard

ORDERING INFORMATION

MODEL	DESCRIPTION
9100A-50 ^(*)	400Vp-p Single Channel Signal Amplifier
9200A-50 ^(*)	400Vp-p Dual Channel Signal Amplifier

^(*) Custom gain available upon request, however, bandwidth may change.

⁽¹⁾ Standard warranty in India is 1 year.