



General description:

The Ciprian GPA series comprises general purpose amplifiers intended for multiple applications. Their high bandwidth, low noise and low distortion makes them suitable for amplification of weak signals. On the other hand, their output ratings and the built-in protections allow the safe excitation of loads and transducers with powers up to 15W. Ciprian offers two models: GPA-15-A with an output of $\pm 15V$ and GPA-10-A with $\pm 10V$, both delivering an output current of $\pm 1A$.

Main features:

- Low cost.
- High slew rate.
- Linear amplification with low distortion.
- Very high bandwidth including DC operation.
- Over-temperature, overload and short-circuit protection.

Specifications:




Input

Parameter	GPA-10-A	GPA-15-A
Input coupling	DC	DC
Useful range of input voltage	±1.0V	±1.5V
Maximum input voltage	15V	20V
Input impedance	50Ω ⁽¹⁾	50Ω ⁽¹⁾
Input connector	BNC	BNC



Output

Maximum output voltage	±10V	±15V
Voltage gain	x 10 ⁽²⁾	x 10 ⁽²⁾
Maximum output current	1A	1A
Input referred offset	2mV	2mV
Output protection	Overload, short-circuit and over-temperature	Overload, short-circuit and over-temperature
Output connector	BNC	BNC
Full power bandwidth	DC – 40MHz	DC – 40MHz
Slew rate	2500V/μs	2500V/μs
Output impedance	100mΩ+34nH ⁽¹⁾	100mΩ+34nH ⁽¹⁾
Total harmonic distortion	-69dB (@1MHz, 10V _p)	-69dB (@1MHz, 10V _p)
Input referred noise density	9.4μV/√Hz (@1MHz)	9.4μV/√Hz (@1MHz)
Input referred voltage noise	59.7μV _{RMS} (1kHz-40MHz)	59.7μV _{RMS} (1kHz-40MHz)



Electrical and mechanical

Dimensions	11cm x 4.5cm x 8cm	17cm x 5.4cm x 8cm
Weight	700g	900g
Power supply	Universal 85~264VAC, 50~60Hz	
Power consumption	20W	28W
Operating conditions	-10 to 40°C, 30-80% RH non-condensing	
Cooling	Forced air	

Note 1: For different values of input/output impedance, please contact us.

Note 2: For different gains, please contact us.



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