

The compact piezo amplifier

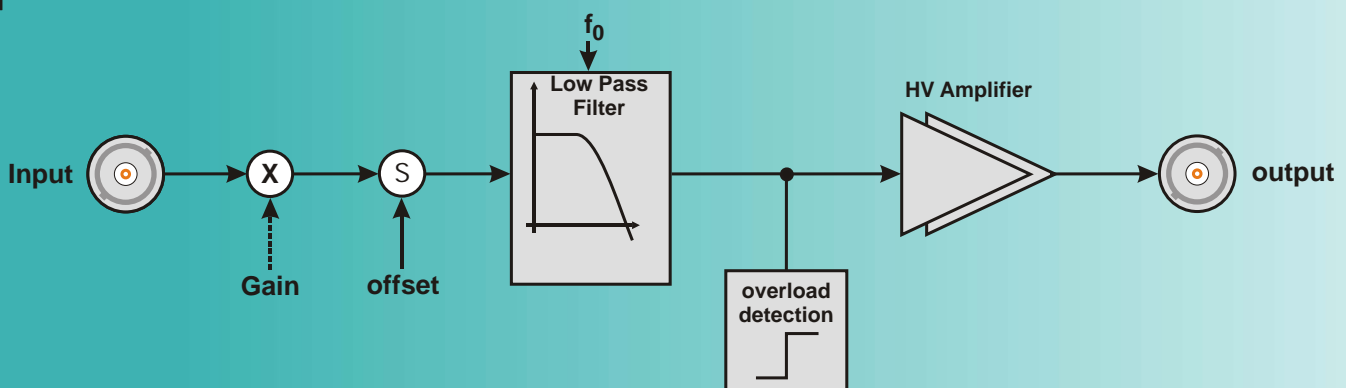


Function

The miniPiA is a fast multi-channel high voltage amplifier in a compact design, especially developed for low-noise driving of piezoelectric actuators.

Electronic filters serve to suppress mechanical resonance effects.

Block Diagram



Description

Both gain factor and DC output level are individually user adjustable for each channel by means of potentiometers. Moreover, each amplifier is equipped with a second order low-pass filter, the cut-off frequency of which can be adjusted individually as well. By means of these filters, resonances in piezo driven systems can be suppressed. Thus, servo loops show significantly better performance.

Technical Data

Input voltage range:	-5...+5 V
Gain:	user adjustable (0 ... 15x)
Small-signal bandwidth:	adjustable 150 Hz...8 kHz
Output voltage / current:	0...150 V, 15 mA average per channel, average sum current max. 25mA higher voltage/current values on request!
Housing dimensions:	88 mm x 125 mm x 209 mm (H x W x D)
Supply voltage:	100...120 / 200...240 V, 50...60 Hz
Product variants:	"miniPiA 103": triple channel "miniPiA FiberLock": double channel with multi-pin connectors

Development, Manufacturing and Distribution



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Specifications are subject to change without notice.