

### APPLICATIONS

- > Piezo drive up to 2 channels
- > High accuracy positioning
- > High frequency application

### KEY FEATURES

- > 360mA continuous output
- > [-20V;150V] output voltage range
- > Low noise SNR 85dB and THD 0.1%
- > Push pull configuration in option
- > Fully protected piezo amplifier
- > Building block for multi channel configuration



NON CONTRACTUAL PICTURE

### RELATED PRODUCT

- > Piezo actuators and stages
- > CTEC Powered benchtop case
- > CTEC Powered 19" subrack
- > UC45 / UC55 Controllers
- > SG75 / ECS75 sensors conditioners

### SPECIFICATIONS

PARAMETER	TYPICAL VALUE	UNIT
<b>&gt; General</b>		
Function	Driver for piezoelectric actuator	
Number of channels	1 ... 2	
<b>&gt; Input</b>		
Control Input voltage	-1 ... +7.5	V
Control Input impedance	10	kΩ
<b>&gt; Output</b>		
Output voltage	-20 ... +150	V
Continuous peak output current (1)	±360	mA
Maximum output load	400	μF
<b>&gt; Gain</b>		
Gain	20	V/V
Gain error	±1	%
Gain linearity error	0,01	%

## > Dynamic performance

Small signal bandwidth (-3dB) (2)	30	kHz
Power bandwidth	See chart	Hz
THD	0,1	%
Signal to Noise Ratio (3)	85	dB

## > Protections

Overcurrent,  
Overtemperature,  
Overvoltage

## ANNOTATIONS

*Guaranteed in labs environment*

(1) Electronically limited

(2) Unloaded

(3) Computed as RMS output signal / RMS output Noise floor. [1; 200]Hz

(4) Extended temperature under request

(5) no Dynamic Current Limitation for integrated Push Pull option

## MISCELLANEOUS

PARAMETER	TYPICAL VALUE	UNIT
Mass	1	kg
Front face dimension	10F wide, 3U high	
Warm up time	15	min
Cooling	Forced air	
Operating temperature range (4)	0 ... 40	°C
Storage temperature range	-10 ... 50	°C

## INTERFACES

> <b>Order input</b>	BNC type
> <b>Piezo actuator Output</b>	LEMO EPL-00-250
> <b>DC Offset</b>	10-turn screw potentiometer
> <b>DC Offset Range</b>	-1 ... +7.5V
> <b>Servo ON/OFF</b>	Selector for control loop

## INCLUDED ACCESSORIES

> <b>Piezo actuator cable</b>	Coax 1.5m - Lemo connector / 2x banana 1mm plug
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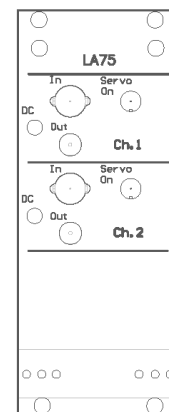
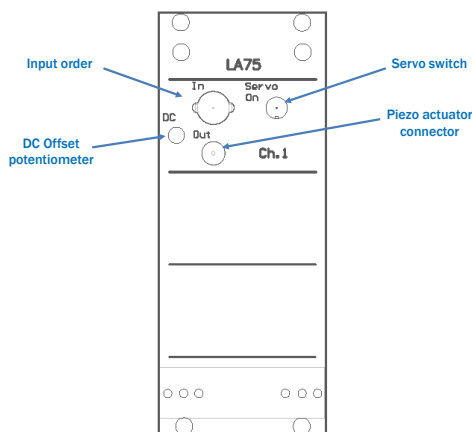
## OPTIONS

- > **Push pull** Capability to drive push-pull piezo mechanisms

PARAMETER	TYPICAL VALUE	UNIT
Output DC voltage	130	V
DC error	±0.25	V
Average output current	±360	mA
Continuous peak output current (5)	±360	mA
Load regulation	0,1	%

- > **Output connector** LEMO EPG-00-303
- > **UC55/UC65** Controller for position loop  
See specific datasheet
- > **Piezo cable** Specific length on request  
Please contact CTEC for more detail
- > **T LEMO** Able to connect 2 CTEC actuators in parallel  
Please contact CTEC for more detail
- > **LEMO -BNC adapter** Converts LEMO to BNC connector

## DRAWINGS



## TYPICAL PERFORMANCE CHARACTERISTICS

