

### APPLICATIONS

- > Piezo drive up to 3 channels
- > High accuracy positioning

### KEY FEATURES

- > 90mA continuous output

### 3MA OPTIONAL PEAK 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

### RELATED PRODUCT

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



NON CONTRACTUAL PICTURE

### SPECIFICATIONS

PARAMETER	TYPICAL VALUE	UNIT
<b>&gt; General</b>		
Function	Driver for piezoelectric actuator	
Number of channels	1 ... 3	
<b>&gt; Input</b>		
Control Input voltage	-1 ... +7.5	V
Control Input impedance	10	k $\Omega$
<b>&gt; Output</b>		
Output voltage	-20 ... +150	V
Continuous peak output current <sup>(1)</sup>	$\pm$ 90	mA
Maximum output load	400	$\mu$ F
<b>&gt; Power amplifier</b>		
Peak output power	45	W
<b>&gt; Gain</b>		
Gain	20	V/V
Gain error	$\pm$ 1	%
Gain linearity error	0.01	%

## > Dynamic performance

Small signal bandwidth (-3dB) <sup>(2)</sup>	30	kHz
Power bandwidth	See chart	
THD	0.1	%
Signal to Noise Ratio <sup>(3)</sup>	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; 2]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

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

## INCLUDED ACCESSORIES

### > Piezo actuator cable

Coax 1.5m - Lemo connector /  
2x banana 1mm plug

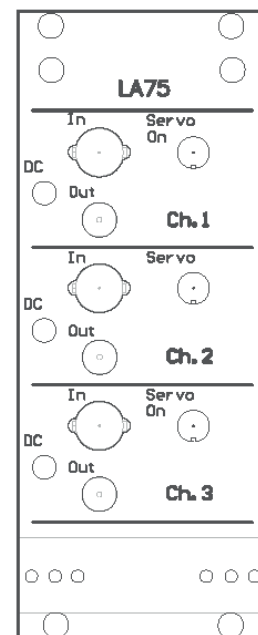
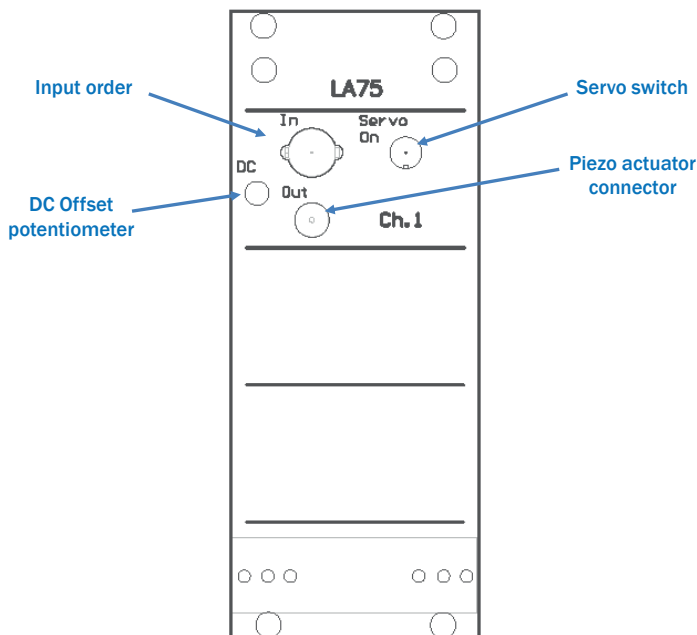
## OPTIONS

- > **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	±90	mA
Continuous peak output current <sup>(5)</sup>	±90	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

