

### APPLICATIONS

- > 1 channel
- > High accuracy positioning
- > High frequency application

### KEY FEATURES

- > 2.4A continuous output
- > 6,8A peak output
- > [-20;150]V output voltage range
- > Low noise 85dB and high accuracy 0.1%
- > Fully protected piezo amplifier
- > Building block for multi channel configuration

### RELATED PRODUCT

- > CTEC Powered Racks
- > Piezo actuators
- > Controller UC range
- > CTEC sensors conditionners



NON CONTRACTUAL PICTURE

### SPECIFICATIONS

PARAMETER	TYPICAL VALUE	UNIT
Number of channels	1	
<b>Input</b>		
Control Input voltage	-1 ... +7.5	V
Control Input impedance	10	kΩ
<b>Output</b>		
Typical output voltage	-20 ... +150	V
Continuous output current (1)	± 2 400	mA
Peak output current (2)	6 800	mA
Maximum output load	400	μF
<b>Power amplifier</b>		
Peak output power (3)	160	VA
<b>Gain</b>		
Gain	20	V/V
Gain error	±1	%
Gain linearity error	0,01	%
<b>Dynamic performance</b>		
Small signal bandwidth (-3dB) (4)	30	kHz
Power bandwidth	See chart	Hz
THD	0,1	%
Signal to Noise Ratio (5)	85	dB
<b>Protections</b>	<b>Overcurrent, Overtemperature, Overvoltage</b>	

## MISCELLANEOUS

PARAMETER	TYPICAL VALUE	UNIT
Mass	1	kg
Front face dimension	10F wide, 3U high	
Rack compatibility	Exclusively compatible with CTEC powered rack	
Warm up time	15	min
Cooling	Forced air	
Operating temperature range (6)	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

- > UC45/UC55 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

## ANNOTATIONS

*Guaranted in labs environment*

*(1) Internally limited*

*(2) During 750µs with a repetition of 20ms - Internally limited*

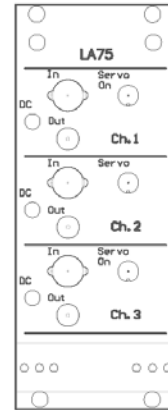
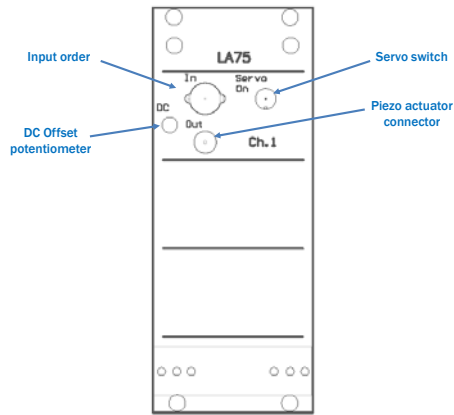
*(3) AC+DC apparent power, sine signal.*

*(4) Unloaded*

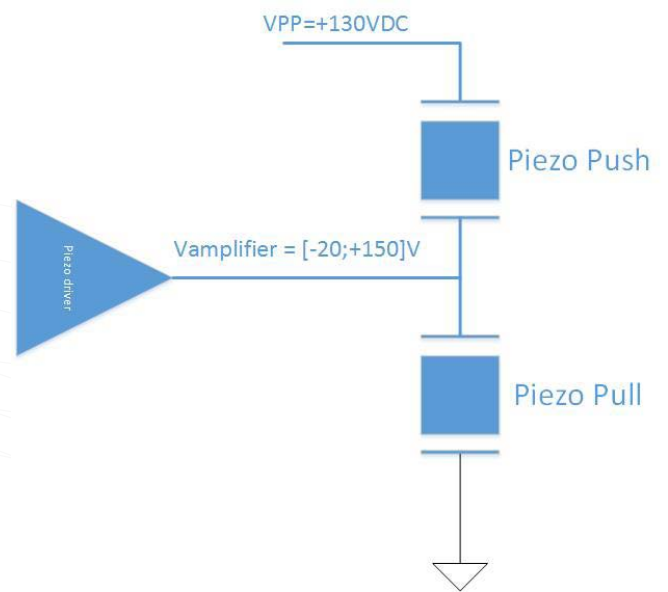
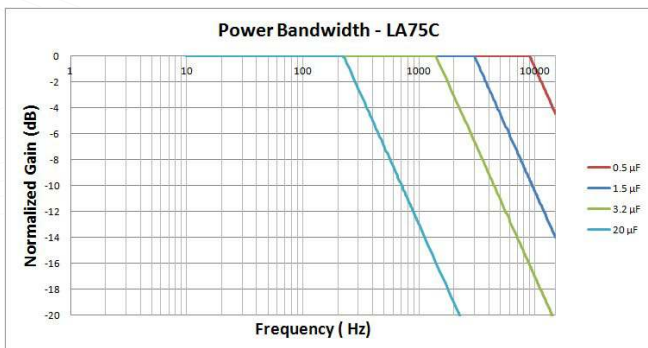
*(5) Computed as RMS output signal/ RMS output Noise floor. [1 ;200]Hz*

*(6) Extended temperature under request*

## DRAWINGS



## TYPICAL PERFORMANCE CHARACTERISTICS



PUSH PULL CONFIGURATION