

### APPLICATIONS

- > Actuators position control
- > Active control of vibrations

### KEY FEATURES

- > Daughter board for CTEC solutions
- > Multi-channels capability (up to 3)
- > PID control with stabilizing filters
- > 16bits resolution
- > 10/15/30kSps sampling rate depending on number of channels
- > Controller tuning with GUI through USB port

### RELATED PRODUCT

- > CTEC power amplifiers
- > CTEC sensor conditioners



NON CONTRACTUAL PICTURE

### SPECIFICATIONS

PARAMETER	TYPICAL VALUE	UNIT
<b>&gt; General</b>		
Number of control channels	1 ... 3	
Number of analog inputs	2	
Number of analog outputs	1	
Digital communication	USB	
Graphical User Interface	CTEC HDPM45	
<b>&gt; Digital control</b>		
Control strategy	Tunable PID + Stabilizing filters	
Stabilizing filters	Tunable lowpass and notch	
List of stabilizing filters configurations	No filter 2nd order lowpass filter 2nd order notch filter 2 x 2nd order notch filters 4th order notch filter	
Sampling rate <sup>(1)</sup>	10 / 15 / 30	kSps
Digital resolution	16	bits
<b>&gt; Analog inputs</b>		
Voltage range	-10 ... +10	V
Small signals bandwidth (-3dB)	34	kHz
<b>&gt; Analog outputs</b>		
Voltage range	-10 ... +10	V
Small signals bandwidth (-3dB)	>100kHz	kHz

## MISCELLANEOUS

PARAMETER	TYPICAL VALUE	UNIT
Mass	0.02	kg
Product compatibility	CA45, LA75, SA75 series	
Operating temperature range	0 ... +40	°C
Storage temperature range	-10 ... +50	°C
Warm up time	15	min
Computer interface	USB type B	

## INCLUDED ACCESSORIES

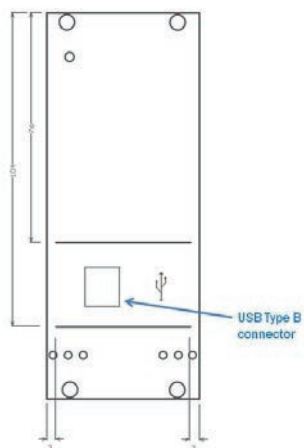
> **Front panel USB hub** With type B connector

Mass	0.09	kg
Front panel dimensions	10F wide, 3U high	
USB cable	Type B to Type A	
HDP45 Graphical User Interface	Windows compatibility	

## ANNOTATIONS

(1) 10kSps for 3 channels, 15kSps for 2 channels, and 30kSps for 1 channel

## DRAWINGS



## TYPICAL PERFORMANCE CHARACTERISTICS

