

# 1 Channel | E53.C1K

## Piezo Amplifier



### Characteristics >>

- Single channel
- Small size
- 24VDC1.5A (36W) power supply
- Easy to integration
- Open loop control

### Applications >>

- Driving piezo actuator
- Driving piezo nanopositioning stage
- Driving piezo objective scanner
- Driving piezo shifter
- Driving FTS fast tool positioner
- Driving piezo scanning platform
- Driving capacitive load

## Introduction

To meet the small-volume application requirements, CoreMorrow develops E53.C piezo amplifier. It is a single-channel controller controlled by analog or digital signals. The power supply is 24VDC/1.5A. The body has a heat-dissipating area that conducts the heat generated.



### CoreMorrow Ltd.

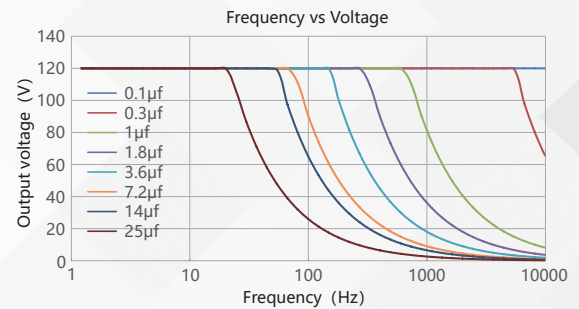
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## Technical Data >>

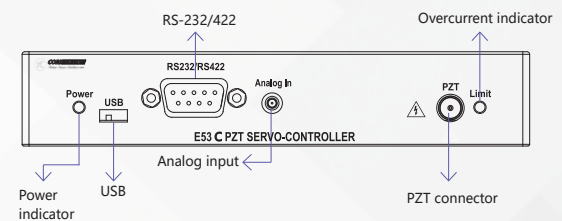
| Type                              | E53.C1K                                                          |
|-----------------------------------|------------------------------------------------------------------|
| Channels                          | 1                                                                |
| Analog input(V)                   | -1.67~10                                                         |
| Output voltage(V)                 | -20~120 (optional -20~150)                                       |
| Peak current(A)                   | 1                                                                |
| Ave. current(mA)                  | 60                                                               |
| Bandwidth(kHz)                    | 10                                                               |
| Output voltage ripple(mVpp)       | 10( @2.2μF)                                                      |
| PZT connector                     | ZPL.00S.250.HLN                                                  |
| Control input connector           | SMB                                                              |
| Communication interface           | USB (TYPE-C) , RS-422 (D-SUB9) , RS-232 (D-SUB9)                 |
| Baudrate                          | 9600, 19200, 38400, 115200                                       |
| Secondary development baud rate   | 9600, 19200, 38400, 57600, 76800, 115200, 128000, 230400, 256000 |
| Processor                         | 32Bit 168MHz                                                     |
| D/A converter                     | 16Bit                                                            |
| A/D converter                     | 16Bit                                                            |
| Operating temperature(° C)        | 0~50                                                             |
| Output current, short-circuit(mA) | 60                                                               |
| Overcurrent indicator             | Lights when output ave. current > 60mA                           |
| Static power(W)                   | < 5                                                              |
| Size(mm) (L×H×D)                  | 148×27.5×80                                                      |
| Mass(kg)                          | 0.35                                                             |
| Power supply                      | 24V(20~30V)DC1.5A(36W)                                           |

## Curves >>

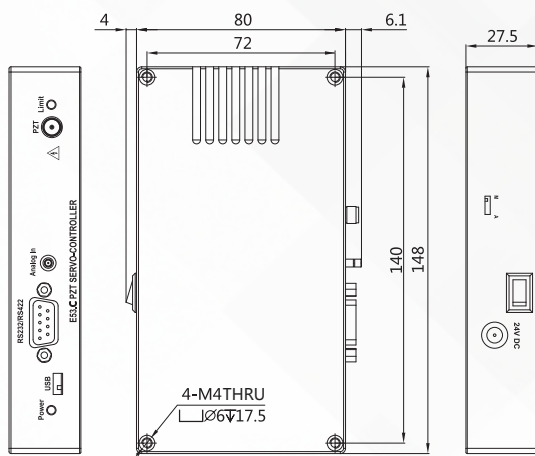


Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

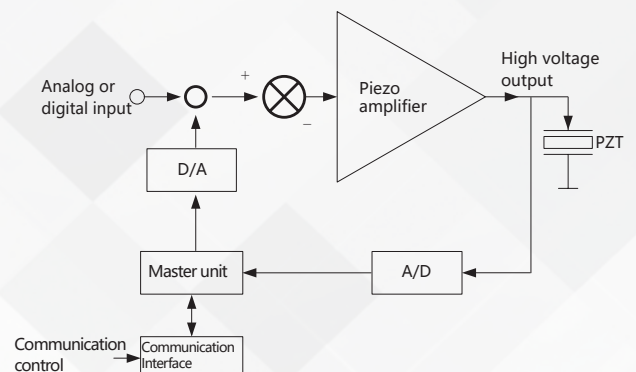
## Panel Introduction >>



## Drawing >>



## Driving Principle >>



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