

1 Channel | E53.D1S

Piezo Controller



Introduction

To meet the small-volume application requirements, CoreMorrow develops E53.D piezo controller. 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.

Characteristics >>

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



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790

Email: info@coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Fax: +86-451-86267847

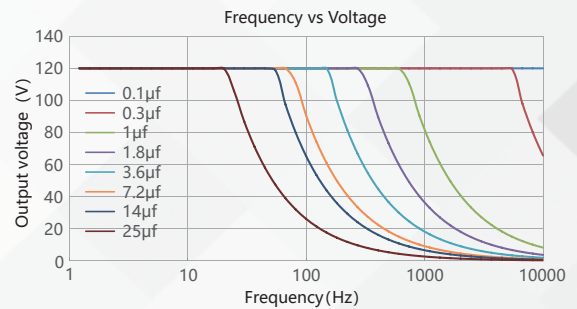
Web: www.coremorrow.com

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

Technical Data >>

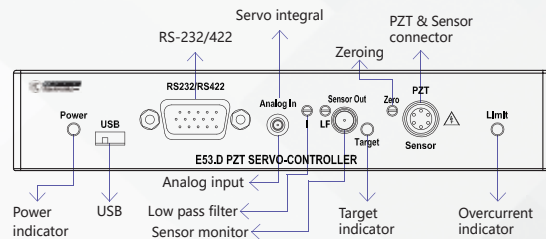
Type	E53.D1S
Channels	1
Analog input(V)	-1.67~10
Output voltage(V)	-20~120 (optional -20~150)
Peak current(A)	1
Ave. current(mA)	60
Bandwidth(kHz)	10
Output voltage ripple(mVpp)	10(@2.2μF)
PZT connector	ECG.0B.306.CLLV
Control input connector	SMB
Sensor type	SGS
Servo	Analog P-I+Notch filter+Low pass
Sensor connector	ECG.0B.306.CLLV
Sensor Output connector	SMA
Communication interface	USB (TYPE-C) , RS-422 (D-SUB9) , RS-232 (D-SUB9)
Bandrate	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(g)	370
Power supply	24V(20~30V)DC1.5A(36W)

Curves >>

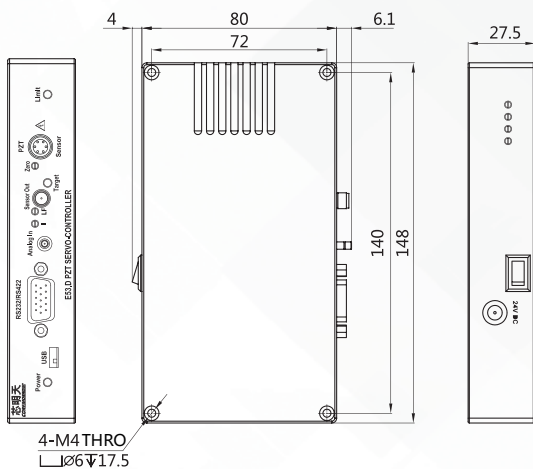


Disclaimer: The data here are typical, only for reference. Some variations will occur for different batch.

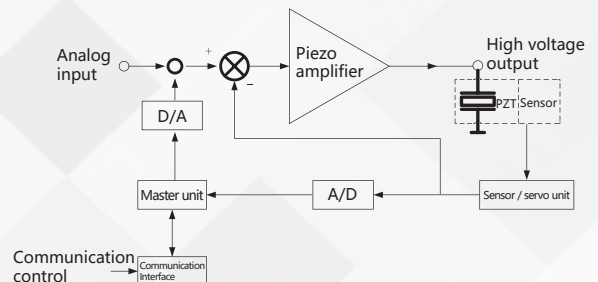
Panel Introduction >>



Drawing >>



Driving Principle >>



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