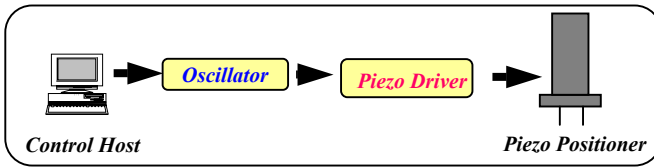


# Piezo Positioner

Metal sealed multilayer piezo actuator

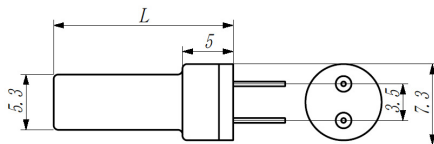
PMF, PRB, PHB, PFT, PTB series

## Sample system configuration



Available in high temperature  
and humidity environment (ex.85°C, 90%RH)  
Variety goods  
(Small size, high temperature, large generated force)  
We make special order product (ex.Non-magnetic)

## PMF series

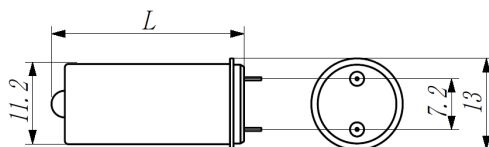


## Specifications

Item	PMF-3010	PMF-3020	PMF-3030
Operating temperature range	-20~85°C		
Maximum operating voltage	150V		
Maximum displacement	≥ 3 μm	≥ 7 μm	≥ 10 μm
Hysteresis	≤ 15%		
Maximum generated force	≥ 100N		
Resonance frequency	≥ 60kHz	≥ 40kHz	≥ 20kHz
Capacitance	70nF±20%	140nF±20%	230nF±20%
Dielectric loss	≤ 3.0%		
Insulation resistance	≥ 100MΩ		
Dimension : L×Φ(mm)	7.2×φ7.3	12.2×φ7.3	17.2×φ7.3

Small size (Φ7.3mm)

## PRB3000series

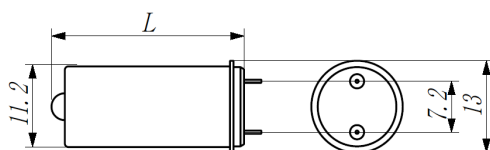


## Specifications

Item	PRB-3020	PRB-3040	PRB3060
Operating temperature range	-20~85°C		
Maximum operating voltage	150V		
Maximum displacement	≥ 17 μm	≥ 34 μm	≥ 51 μm
Hysteresis	≤ 15%		
Maximum generated force	≥ 800N		
Resonance frequency	≥ 30kHz	≥ 15kHz	≥ 10kHz
Capacitance	1.7 μF±20%	3.4μF±20%	5.1μF±20%
Dielectric loss	≤ 3.0%		
Insulation resistance	≥ 100MΩ		
Dimension : L×Φ(mm)	27.4×φ13	47.4×φ13	67.4×φ13

Standard

## PRB4000 series



## Specifications

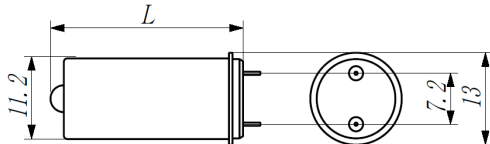
Item	PRB-4020	PRB-4040	PRB-4060
Operating temperature range	-20~85°C		
Maximum operating voltage	150V		
Maximum displacement	≥ 24 μm	≥ 48 μm	≥ 72 μm
Hysteresis	≤ 15%		
Maximum generated force	≥ 1100N		
Resonance frequency	≥ 30kHz	≥ 15kHz	≥ 10kHz
Capacitance	2.8 μF±20%	5.6μF±20%	8.4μF±20%
Dielectric loss	≤ 3.0%		
Insulation resistance	≥ 100MΩ		
Dimension : L×Φ(mm)	27.4×φ13	47.4×φ13	67.4×φ13

Large displacement

# Piezo Positioner

Metal sealed multilayer piezo actuator

## PHB series

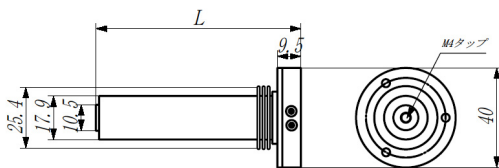


### Specifications

Item	PHB-3020	PHB-3040	PHB-3060
Operating temperature range	-20~150°C		
Maximum operating voltage	150V		
Maximum displacement	≥17 μm	≥34 μm	≥51 μm
Hysteresis	≤15%		
Maximum generated force	≥800N		
Resonance frequency	≥30kHz	≥15kHz	≥10kHz
Capacitance	1.7 μF±20%	3.4μF±20%	5.1μF±20%
Dielectric loss	≤3.0%		
Insulation resistance	≥100MΩ		
Dimension : L×Φ(mm)	27.4×φ13	47.4×φ13	67.4×φ13

Available in high temperature(150°C)

## PFT series

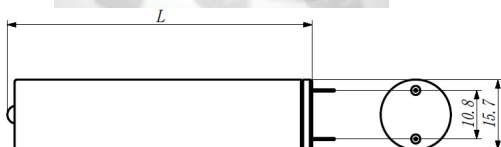


### Specifications

Item	PFT-1040	PFT-1070	PFT-1100
Operating temperature range	-20~85°C		
Maximum operating voltage	150V		
Maximum displacement	≥35 μm	≥60 μm	≥83 μm
Hysteresis	15±3%		
Maximum generated force	≥800N		
Resonance frequency	9±3kHz	7±3kHz	5±3kHz
Capacitance	4.4 μF±20%	7.6μF±20%	10.8μF±20%
Dielectric loss	≤3.0%		
Insulation resistance	≥100MΩ		
Dimension : L×Φ(mm)	65.9×φ40	95.9×φ40	125.9×φ40

High stiffness

## PTB series



### Specifications

Item	PTB-3060	PTB-3080	PTB-3110
Operating temperature range	-20~85°C		
Maximum operating voltage	150V		
Maximum displacement	≥60 μm	≥80 μm	≥100 μm
Hysteresis	≤15%		
Maximum generated force	≥2400N		
Resonance frequency	≥10kHz	≥8kHz	≥6kHz
Capacitance	15 μF±20%	20μF±20%	25μF±20%
Dielectric loss	≤3.0%		
Insulation resistance	≥100MΩ		
Dimension : L×Φ(mm)	67.4×φ15.6	87.4×φ15.6	107.4×φ15.6

Large generated force

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