Round Piezoelectric Bimorph Bender

Features

- AC lifetime: 10^9 cycles
- Microsecond-level response
- Vacuum compatible up to 10^{-6}Pa
- Operating voltage: -20 to +150V
- Curie temperature: 230°C

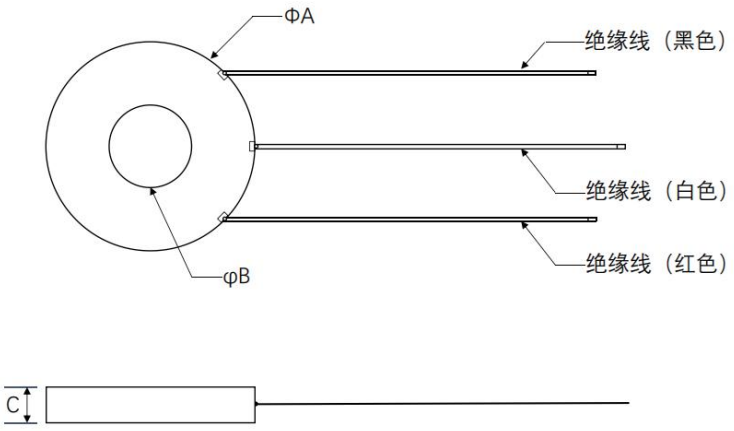
Description

Piezo Bender Actuator, made by co-firing multiple layers of piezoelectric ceramics, and can independently control the drive voltage of each layer of ceramics. The free end can bend to produce displacement, the amplitude and direction of displacement are functionally related to the applied voltage. The product specifications and performance parameters are benchmarked against the level of international companies, and mass production has been achieved.

Applications

- Laser technology and laser beam control
- Medical technology
- Printing technology
- Acceleration transducer
- Fibre channel switch

Interface Definition



General dimension, Unit: mm

Technical Specifications

	PAA-BR420-13W	Unit	Tolerance
Active axes	Z		
Max. displacement	±28	μm	±15%
Displacement hysteresis	<15%		
Load capacity	1.5	N	Max. value
Electrical properties			
Operating voltage	0-150	V	
Resonant frequency	13.1	kHz	Max. value
Dielectric loss	<2.0%		
Electrical capacitance	840/unilateral	nF	±15%
Miscellaneous			
Operating temperature range	-25~130	°C	
Electrode	Silver		
Cable length	75	mm	±5 mm
Curie temperature	230	°C	
Dimensions			
A	20	mm	±0.5 mm
B	4	mm	±0.1 mm
L	1.2	mm	±0.1 mm