



MULTILAYER PIEZO ACTUATOR FOR PRECISE SENSING AND ACTUATION APPLICATIONS



APPLICATIONS

Actuator

- ▶ Positioner / Valve control
- ▶ Nebulizer

Sensor

- ▶ Ultrasonic distance sensor (liquid/air)
- ▶ Pressure sensing

FEATURES

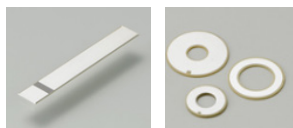
- ▶ High piezoelectric constant
- ▶ Security layer design (stack)
- ▶ Low Pd content
- ▶ Automotive quality grade

MATERIAL PROPERTIES

- ▶ Various types of PZT-material available
- ▶ Electrodes screen printed or sputtered

SPECIFICATIONS

	Multi layer piezo stack	Plate type	Disk type	Ring shape
Dimension	Min. 2 x 2 x 5 mm Max. 10 x 10 x 60 mm	L ~ 45 mm	OD 5 ~ 40 mm	OD 10 ~ 20 mm
Pd content / thickness	Min. 5 % (inner electrode)	Min. 0.15 mm	0.1 ~ 1.0 mm	0.2 ~ 1.0 mm
Notes	Outer electrode / sealing with metal housing available	Multi layer available	Unimorph / bimorph available	Unimorph / bimorph available



Cased piezo for harsh environment

PIEZO EFFECT PRINCIPLE

