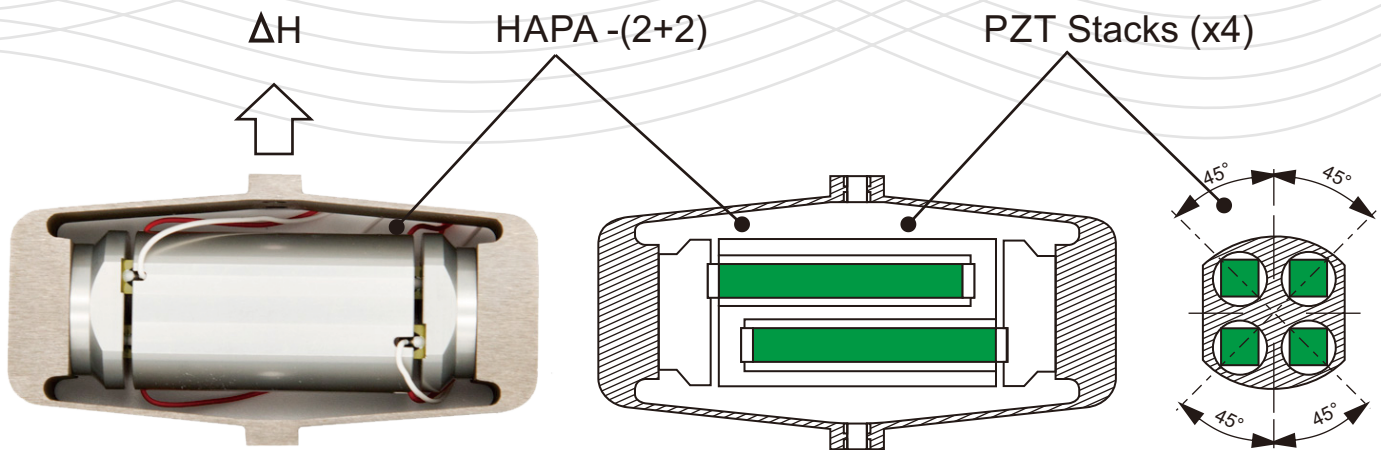


HD-FTA

HAPA-Driven Flextensional Piezoelectric Actuator

Large stroke and high working load



Key Features

- Large stroke (up to 700 μm) and high working load (up to 80 kg-f)
- Smaller length compared with commercial FTA of comparable performance
- Free-free mode resonance frequencies of 1000-2300 Hz

Feature	HD-FTA-700	HD-FTA-450	HD-FTA-350	HD-FTA-250
Dimensions (L x D x H; mm)(*)	78x20x41(H)	78x20x41.5(H)	78x20x42(H)	78x20x43(H)
Voltage Range (V)	0-150	0-150	0-150	0-150
Stroke, ΔH (μm) @ 150V	700	450	350	250
Max. Working Load (kg-f)	10	22.5	41	80
Approx. Stiffness (N/ μm)	0.15	0.37	0.70	3.20
Reson. Freq. (free-free; Hz)	1000	1460	1675	2300
Reson. Freq. (free-blocked; Hz)	200	285	350	475
Op. Temperature Range ($^{\circ}\text{C}$)	-20 to +80	-20 to +80	-20 to +80	-20 to +80
Capacitance (μF)	16.7	16.9	16.8	16.2
Mass (g)	167	173	179	189
Std. mechanical interface	2 flat mounting surfaces of 8mmx20mm & each with two M4 threaded holes			
Std. electrical interface	80 mm long wires of 0.8 mm in outer dia. (lead wire dia. = 0.5 mm).			



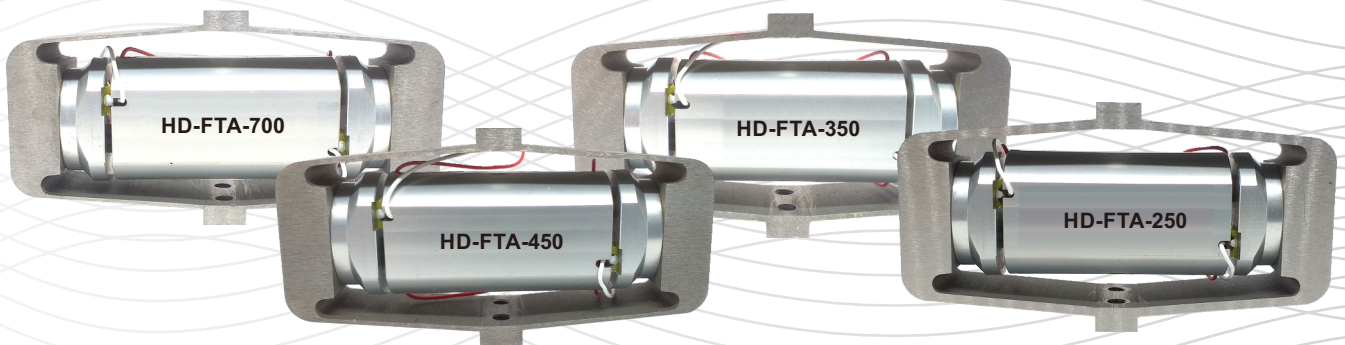
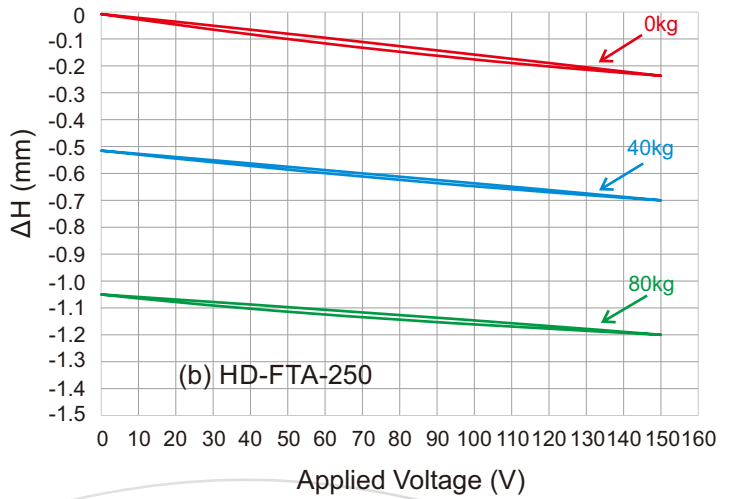
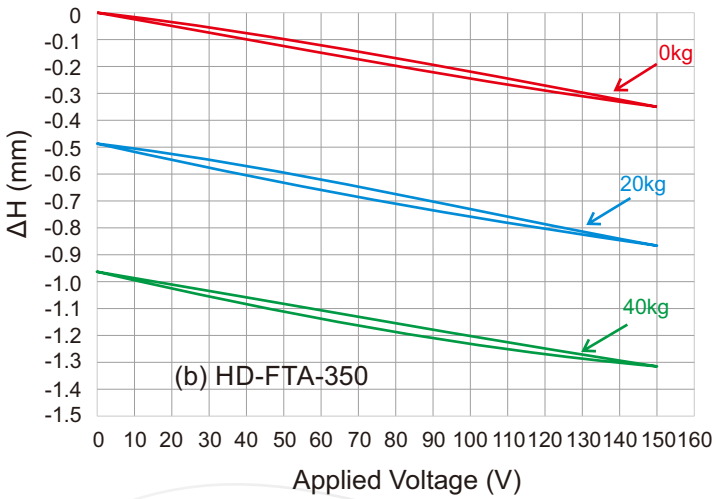
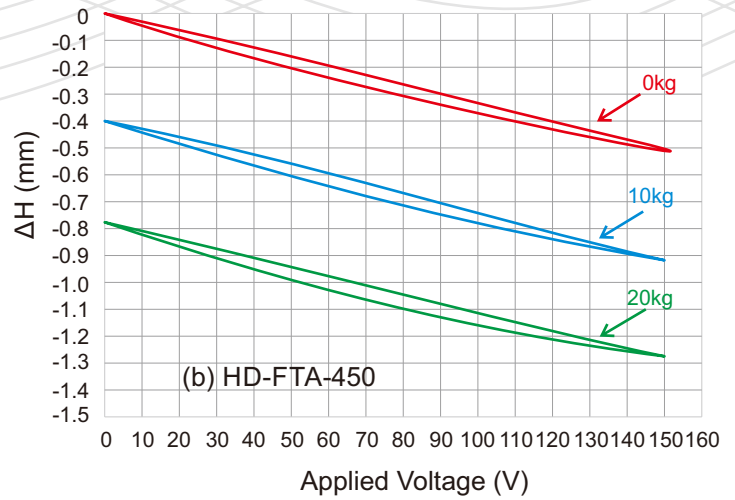
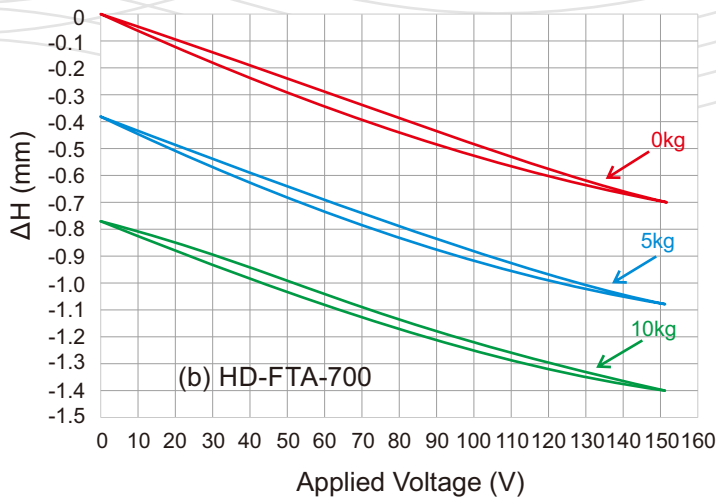
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Vertical displacement ΔH responses of HD-FTA-700, HD-FTA-450, HD-FTA-350 and HD-FTA-250 under different loads



Mircofine reserves the right to change specifications without notice.



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