

Revolutionary High Definition Haptic

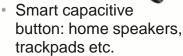
KEMET film actuators add haptic skin to any device embedded in product surface to create:

- Localized, independent sensations anywhere on the surface (flat, curved or flexible)
- Natural, organic, authentic touch sensations

Typical Applications

Interaction with hands:

 Gaming and VR controllers including gloves



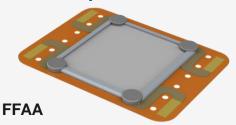
- Mouse and keyboard with OLED display
- Localized haptic for fingerprint sensor

Key Product Highlights

- Thin 150 µm
- Flexible and comformable
- High displacement: 250 µm

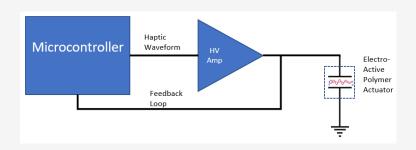
FFAA Film Flex Assembled Actuator

Product Specifications



Parameter	Value	Unit
Size	14.1 x 18.5	mm
Thickness	0.6	mm
Weight	76	mg
Operative Voltage	212@ 150Hz	Vpp
Frequency range	10 – 500	Hz
Out of plane displacement	≈ 200	um

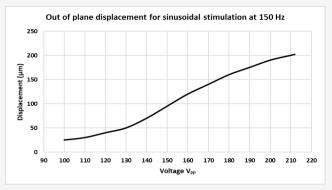
Driver Circuit



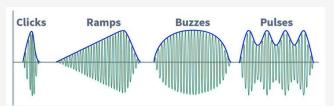
Driving IC MICROCHIP

- Master IC (<u>HV56020</u>) Scalable if additional power is required for simultaneous drive of multiple channels
- Slave IC (<u>HV56022</u>) Additional IC can be added to drive further channels to be driven time-sliced versus those drawing power
- Overvoltage Protection / Undervoltage Protection / Short – Circuit Protection

Displacement Magnitude



Effect Design



- Library of haptic effects
- Software tools to enable simple effect designs