**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
- Smart capacitive button: home speakers, trackpads etc.
- Mouse and keyboard with OLED display
- Localized haptic for fingerprint sensor

**Key Product Highlights**

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

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**Product Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>14.1 x 18.5</td>
<td>mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>0.6</td>
<td>mm</td>
</tr>
<tr>
<td>Weight</td>
<td>76</td>
<td>mg</td>
</tr>
<tr>
<td>Operative Voltage</td>
<td>212@ 150Hz</td>
<td>Vpp</td>
</tr>
<tr>
<td>Frequency range</td>
<td>10 – 500</td>
<td>Hz</td>
</tr>
<tr>
<td>Out of plane displacement</td>
<td>≈ 200</td>
<td>um</td>
</tr>
</tbody>
</table>

**Driving IC**

- **Master IC (HV56020)** - Scalable if additional power is required for simultaneous drive of multiple channels
- **Slave IC (HV56022)** - 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

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**Effect Design**

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