### Ultrasonic Array Probe

#### Linear Array Probe

#### Matrix Array Probe

#### Annual Array Probe

[Available for requests from customer]

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**Ultrasonic Array Probe**

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**Specification**

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Frequency</td>
<td>0.5 ~ 25 MHz</td>
</tr>
<tr>
<td>2</td>
<td>Numbers of elements</td>
<td>8 ~ 512</td>
</tr>
<tr>
<td>3</td>
<td>Element pitch</td>
<td>0.2 mm ~</td>
</tr>
<tr>
<td>4</td>
<td>Connector</td>
<td>Hypertronix, Tyco, ITT Cannon</td>
</tr>
</tbody>
</table>

**Design example of array probe**

**Option**

- Extended & converted cable
  - Hypertronix, Tyco, ITT Cannon
- Shoes & wedges for array probe
  - Material: polystyrene, acrylic resin & others

**Connector & extended cable**

### Array shoe

- Angle shoe (polystyrene)
- Angle shoe (SX material)

### Multi-conductor cable

- 134 conductor / 68 conductor / 34 conductor /
- AWG 30 / 60 / 40
- Provide the required shielded cable

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**Delivery time**

The delivery time is 1 month to 1 month & half.

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http://www.jp-probe.com E-mail: info@jp-probe.com
Japan Probe Company provides the highest technology & high quality for array probes.

Materials

- The material of element is 1-3 composite.

Kinds

- We provide the required array probes for user’s purpose.

Example

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Number of element</th>
<th>Kinds</th>
<th>Element pitch P(mm)</th>
<th>Element size L×H(mm)</th>
<th>Case dimension (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>64</td>
<td>matrix probe</td>
<td>6.0</td>
<td>48×16</td>
<td>150×26×45</td>
</tr>
<tr>
<td>2</td>
<td>64</td>
<td>linear probe</td>
<td>2.5</td>
<td>160×20</td>
<td>180×28×35</td>
</tr>
<tr>
<td>3</td>
<td>32</td>
<td>focused probe</td>
<td>1.0</td>
<td>64×10</td>
<td>80×14×30</td>
</tr>
<tr>
<td>5</td>
<td>64</td>
<td>focused probe</td>
<td>1.0</td>
<td>64×10</td>
<td>80×14×30</td>
</tr>
<tr>
<td>7</td>
<td>128</td>
<td>Concave probe</td>
<td>0.6</td>
<td>77×8</td>
<td>94×18×82</td>
</tr>
<tr>
<td>7.5</td>
<td>128</td>
<td>Concave probe</td>
<td>0.32</td>
<td>20.5×10</td>
<td>54×16×38</td>
</tr>
<tr>
<td>10</td>
<td>64</td>
<td>Concave probe</td>
<td>0.6</td>
<td>38×10</td>
<td>50×50×42</td>
</tr>
<tr>
<td>15</td>
<td>64</td>
<td>matrix probe</td>
<td>1.0</td>
<td>8×8</td>
<td>20×20×45</td>
</tr>
</tbody>
</table>

- We design & provide various kinds probes for requirement.

Special array probe

- Flexible array probe & available for measurement in narrow place

- High speed & reliable inspection
  The wave form pattern for data in all channels data is obtained & saved in pulser receiver & multiplexer, phased array equipment.

- Design of high temperature specification
  High temperature wedge is used, available for measurement at 150℃

Inspection

- High speed & reliable inspection
  The wave form pattern data is obtained & saved in personal computer.

- Frequency, sensitivity, band width

Character

- We provide: The high quality & wide band wave form probe: Less deviation sensitivity.

Wave form pattern

Central frequency

Band width

Sensitive deviation

Composite element