Standard Offering

CIN::APSE solderless, high density, custom interconnects are used for board to board, IC to board, flex to board and component to board applications. CIN::APSE is the most widely implemented crimpless and solderless, high speed, interconnect in the industry. The simple 2-piece, patent protected design enables 50+ Gbps, and wide range of profiles from 0.020 in to 1.0 in. CIN::APSE contacts are available in 0.5 mm and 1.0 mm diameters with a standard pitch of 1.0 mm or greater. CIN::APSE connectors have been designed with data, power and RF signals all in one concise package.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>0.020 in (0.508 mm) &amp; 0.040 in (1.016 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Material</td>
<td>Gold-Plated Molybdenum</td>
</tr>
</tbody>
</table>

Technical Specifications

<table>
<thead>
<tr>
<th>Applications</th>
<th>IC to PCB (LGA), PCB to PCB, Flex to PCB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Pitch</td>
<td>≥0.04 in (≥1.00 mm)</td>
</tr>
<tr>
<td>Current Capability</td>
<td>3 Amps continuous, max 6.5 Amps 30°C rise</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-75°F (-60°C) to 220°F (105°C)</td>
</tr>
<tr>
<td>Compliance Total</td>
<td>0.006 in max flatness</td>
</tr>
<tr>
<td>Compression Force / Contact</td>
<td>3 oz (85 g) / Contact</td>
</tr>
<tr>
<td>Crosstalk / Bandwidth</td>
<td>-25 dB @ 10 GHz</td>
</tr>
<tr>
<td>Insertion Loss / Bandwidth (S21)</td>
<td>0.1 dB @ 10 GHz and 0.6 dB @ 50 GHz</td>
</tr>
<tr>
<td>Return Loss / Bandwidth (S11)</td>
<td>-19 dB @ 10 GHz</td>
</tr>
<tr>
<td>Self / Mutual Inductance</td>
<td>0.4-0.5 nH / 0.01-0.10 nH</td>
</tr>
<tr>
<td>Ground / Mutual Capacitance</td>
<td>0.06 pF / 0.01-0.02 pF</td>
</tr>
<tr>
<td>Resistance</td>
<td>&lt;15 mΩ</td>
</tr>
</tbody>
</table>

Markets

- Aerospace
- Communications
- Datacom
- Defense
- Medical

Applications

- EMI Shielding
- Grounding
- IC Sockets
- Interconnects
- Interposers
- Mezzanine Connectors
- RF / Coaxial
- Test Fixtures

Custom Programs

- Chip Packaging
- GHZ Connectors
- Satellites
- Millimeter Wave
- Missiles
- Product Test
- UV / US
- Radar Arrays
- Space Probes