QFN PACKAGE
GOLD & COPPER WIRE
BONDING CAPILLARY

SQ The Solution

SPT small precision tools
HIGHER PRODUCTIVITY & RELIABILITY

IMPROVED MTBA

With SQ capillary, there will be lesser assist due to short tail or broken stitch which is inherent with bonding QFN package. Experience more machine uptime!

**SQ Capillary MTBA Performance using different CU wire diameter**

<table>
<thead>
<tr>
<th>Capillary Part Number</th>
<th>SQ - Cap 1</th>
<th>SQ - Cap 2</th>
<th>SQ - Cap 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire Size</td>
<td>24µm (Cu)</td>
<td>29µm (Cu)</td>
<td>33µm (Cu)</td>
</tr>
<tr>
<td>Package</td>
<td>QFN-Tapeless</td>
<td>QFN-Tapeless</td>
<td>QFN-Tapeless</td>
</tr>
<tr>
<td>Plating Type</td>
<td>NiPdAu</td>
<td>NiPdAu</td>
<td>NiPdAu</td>
</tr>
<tr>
<td>BPP</td>
<td>75µm</td>
<td>80µm</td>
<td>85µm</td>
</tr>
</tbody>
</table>

HIGHER CAPILLARY TOUCHDOWN

SQ capillary coupled with optimized bonding parameters, has proven to deliver an increase in the capillary tool life as lower bond force (BF) is utilized to bond the QFN package.

**Oneway Analysis of Stitch Pull Reading By SQ Capillary Tool Life**

Application Detail
- **Capillary**: SQ-25075-355F08-ZU39TS-Y
- **Wire**: 20µm Au wire
- **Package**: QFN without tape with Ag plating
- **BPP**: 55µm
- **Stitch Pull Reading**: 2gms (minimum)

PROVEN RELIABILITY

Whether on gold or copper wire, the SQ capillary is designed to enhance the formation of larger & width stitch bond that will effectively increase the stitch pull reading values & longer size copper remains.

**Oneway Analysis of Stitch Length by Capillary Type**

**Oneway Analysis of Stitch Width by Capillary Type**

COMPETITOR

SQ CAPILLARY