Test Report
No. 5006465-CH14  Date:  February 15, 2023  Page 1 of 4

Samtec Inc.
520 Park East Blvd
New Albany, IN 47150
United States

The following sample(s) was/were submitted and identified by/on behalf of the client as:  
Solder (lead-free) Color = silver metallic
Country of Destination: USA
Model/ Part No.: Solder (lead free)

Sample Received Date:  01/19/2023
Testing Period:  01/24/2023 – 02/06/2023

Test Requested :  Please refer to the result summary.
Test Method & Results :  Please refer to next page(s).

Result Summary :

<table>
<thead>
<tr>
<th>Test(s) Requested</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. RoHS Directive (EU) 2015/863 amending</td>
<td>See Test Results</td>
</tr>
<tr>
<td>Annex II to Directive 2011/65/EU</td>
<td></td>
</tr>
</tbody>
</table>

Signed for and on behalf of SGS North America, Inc.  
Prepared By:

Brian Murphy
Laboratory supervisor, Chemistry laboratory
Suzie Banik
Technical Report Writer, Chemistry Laboratory

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Member of the SGS Group

<table>
<thead>
<tr>
<th>Test Item(s):</th>
<th>Unit</th>
<th>Test Method</th>
<th>Results</th>
<th>MDL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-5:2013 (Determination of Cd and Pb by ICP-OES and/or ICP-MS)</td>
<td>ND</td>
<td>2</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-4:2013+A1:2017 (Determination of Hg by ICP-OES and/or ICP-MS)</td>
<td>41.4</td>
<td>2</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-7:2:2017 (Determination of CrVI by UV-Vis)</td>
<td>ND</td>
<td>8</td>
</tr>
<tr>
<td>Hexavalent Chromium (CrVI)</td>
<td>mg/kg</td>
<td>With reference to IEC 62321-7:2:2017 (Determination of CrVI by UV-Vis)</td>
<td>ND</td>
<td>8</td>
</tr>
</tbody>
</table>

Sample Description:
1. Box 14 – Solder (Lead-free) Silver Metallic

Note:
(a) mg/kg = ppm; 0.1wt% = 1000ppm
(b) ND = not detected
(c) MDL = Method Detection Limit
(d) - = not regulated
(e) * = Total Chromium analysis by ICP-MS and/or ICP-OES was not detected in submitted sample. Therefore, Hexavalent Chromium determination using UV-Visible Spectroscopy was not performed.
(f) IEC 62321 series is equivalent to EN 62321 series

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Flowchart for RoHS:

1. The Cr, Cd, Pb and Hg contents test on polymeric samples were dissolved totally by pre-conditioning method according to above flow chart.
2. $\text{Cr}^{6+}$ is performed only when total Cr is detected
Sample Photo(s):

SGS authenticates the photo(s) on the original report only

*** End of Report ***