TESTING / INSPECTION REPORT

REPORT NO : VT-171212-2

COMPANY : TechNexion Ltd.
ADDRESS : 16F-5, No. 736, Zhongzheng Road, ZhongHe District, 23511,
           New Taipei City, Taiwan
TEL   : 886-2-8227-3585
FAX   : 886-2-8227-3590
SPECIMEN : TEP0700-IMX7 series
           TEP1-i.MX7 DUAL --- TEP1-IMX7D
           Power Expansion-LPOE --- TXR-P1-12V-POE1

DATE OF RECEIVED : 2017/11/28
DATE OF TESTED   : 2017/11/28

TEST / INSPECTION ITEMS : Vibration Test

REMARKS :
  • The laboratory is accredited by ISO/IEC 17025 General Requirements for the
    Competence of Calibration and Testing Laboratory.
  • The results only apply to the device under test.
  • This report is 9 pages, and no part of it may be abstracted or reproduced.

Test Engineer :

Approval Signatory :

Laboratory Head :

2018.1.26
TESTING / INSPECTION REPORT

TESTING EQUIPMENT:
2. Controller: DACTRON LASER USB, S/N: 12448370

TEST ENVIRONMENT:
Temperature: 25°C (25±10°C)
Relative Humidity: 62%RH (50±25% RH)

SPECIMEN:
No1
Model/(S/N): TEP0700-IMX7 series
TEP1-i.MX7 DUAL --- TEP1-IMX7D
Power Expansion-LPOE --- TXR-P1-12V-POE1

Quantity: 1 unit
TESTING / INSPECTION REPORT

TEST SPECIFICATION :
Random Vibration test (Operating)
Frequency : 5 Hz to 500 Hz

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>PSD (g²/Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.00202068</td>
</tr>
<tr>
<td>500</td>
<td>0.00202068</td>
</tr>
</tbody>
</table>

Test Axis : X, Y, Z axis
Acceleration : 1 grms
Test Time : 60 min / axis
Total Test Time : 180 min

TEST RESULT :

<table>
<thead>
<tr>
<th>Describe</th>
<th>PASS</th>
<th>FAIL</th>
<th>Non-Judgment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function judgment</td>
<td>√</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance check</td>
<td>√</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Testing / Inspection Report

**Vibration testing photos**

<table>
<thead>
<tr>
<th>Testing equipment</th>
<th>Z axis</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Testing equipment" /></td>
<td><img src="image2" alt="Z axis" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>X axis</th>
<th>Y axis</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="X axis" /></td>
<td><img src="image4" alt="Y axis" /></td>
</tr>
</tbody>
</table>
Testing photos

After test-1

After test-2
Testing photos

After test-3

After test-4
X axis -
Test Type: Random
Run Folder: \RunFolder Nov 28, 2017 12-05-15

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>(g²/Hz)</th>
<th>Demand RMS: 1.000666 gn</th>
<th>Control RMS: 1.002116 gn</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>5.9000</td>
<td>0.0010</td>
<td>0.0001</td>
</tr>
<tr>
<td>10.00</td>
<td>1.0000</td>
<td>0.0100</td>
<td>0.0010</td>
</tr>
<tr>
<td>100.00</td>
<td>1.0000</td>
<td>1.00E-06</td>
<td>0.0100</td>
</tr>
<tr>
<td>500.00</td>
<td>1.0000</td>
<td>1.00E-05</td>
<td>1.0000</td>
</tr>
</tbody>
</table>

Level: 100%
Control RMS: 1.002116 gn
Demand RMS: 1.000666 gn
Full Level Elapsed Time: 01:00:00
Remaining Time: 00:00:00
Dof: 154
Frame Time: 0.800000 Seconds
DoF: 1.250000 Hz
Y axis
Test Type: Random
Run Folder: \RunFolder Nov 28, 2017 10-45-33

<table>
<thead>
<tr>
<th>Level</th>
<th>Control RMS</th>
<th>Demand RMS</th>
<th>Full Level Elapsed Time</th>
<th>Remaining Time</th>
<th>Lines</th>
<th>Frame Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 %</td>
<td>1.002234 gn</td>
<td>1.000666 gn</td>
<td>01:00:00</td>
<td>00:00:00</td>
<td>400</td>
<td>0.8000000</td>
</tr>
<tr>
<td></td>
<td>1.0002234 gn</td>
<td>1.000666 gn</td>
<td></td>
<td></td>
<td></td>
<td>1.250000 Hz</td>
</tr>
</tbody>
</table>

Lines: 400 Frame Time: 0.800000 Seconds
DOF: 154 dF: 1.250000 Hz
Z axis

Test Type: Random    Run Folder: \RunFolder Nov 28, 2017 13:41-29

Level: 100 %
Control RMS: 1.003474 gn    Full Level Elapsed Time: 01:00:00    Lines: 400    Frame Time: 0.800000 Seconds
Demand RMS: 1.000666 gn    Remaining Time: 00:00:00    DOF: 154    dF: 1.250000 Hz

-END-