Structure Integration Support

CubeSat standard compliant

DESCRIPTION

The ISIS Structure Integration Support Jigs provides customers with a COTS solution for handling CubeSat Flight Hardware. The jigs allow for a stable working environment for the users of CubeSat structures and protect the satellite sub-systems from Electro Static Discharges.

FEATURES

- The jigs are equipped with rubber stand-off for electrical isolation
- 2 x mounting interface for ESD cable
- Segmented rails for quick adaptability between different CubeSat sizes
- Used for mounting ISIS CubeSat Structure stacks to the structure side-frames
- POM mounting rails & clamps to prevent damage to structure
- ESD protection of structure through additional ESD cable
- Compatible with ISIS, Pumpkin and custom designed CubeSat structures

PROPERTIES

<table>
<thead>
<tr>
<th>Jig</th>
<th>STA1U</th>
<th>HISJ</th>
<th>VISJ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>200 mm</td>
<td>500 mm</td>
<td>200 mm</td>
</tr>
<tr>
<td>Width</td>
<td>200 mm</td>
<td>200 mm</td>
<td>200 mm</td>
</tr>
<tr>
<td>Height (without S/C)</td>
<td>60 mm</td>
<td>62 mm</td>
<td>120 mm</td>
</tr>
<tr>
<td>Clearance between baseplate &amp; S/C</td>
<td>41 mm</td>
<td>40 mm</td>
<td>20 mm</td>
</tr>
<tr>
<td>Material</td>
<td>Aluminium, POM</td>
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</table>
STACK INTEGRATION SUPPORT JIG (STA1U)

- Support jig for integration of ISIS CubeSat structure stacks
- Provides a steady base for integration of PCBs onto the CubeSat ribs
- POM covers to prevent damage of structure parts
- ESD protection of structure through fasteners & mounting bracket
- A perfect solution to create a bench satellite setup of your engineering model

HORIZONTAL INTEGRATION SUPPORT JIG (HISJ)

- Horizontal support jig for ISIS 2U and 3U CubeSat structures
- Segmented rails for quick adaptability between different CubeSat sizes
- Used for mounting ISIS CubeSat structure stacks to the structure side-frames
- POM mounting rails & clamps to prevent damage to structure
- ESD protection of structure through additional ESD cable

VERTICAL INTEGRATION SUPPORT JIG (VISJ)

- Vertical support jig for ISIS 1U, 2U, 3U and 6U CubeSat structures
- 2 fixed clamps and 2 adjustable POM clamps (to prevent damage to structure)
- Used for mounting external payload on CubeSats, functional test of satellite systems and environmental testing of satellites
- ESD protection of structure through additional ESD cable
- Compatible with every structure adhering to the CubeSat Standard

AVAILABLE CONFIGURATIONS

- Stack Integration Support Jig (STA1)
- Horizontal Satellite Integration Support Jig (HISJ)
- Vertical Satellite Integration Support Jig (VISJ)
- 1U Integration Support JIG SET (STA1U + VISJ)
- 2 or 3U Integration Support Jig Set (STA1U + HISJ + VISJ)