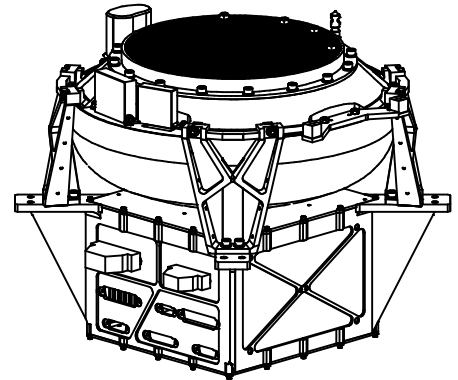
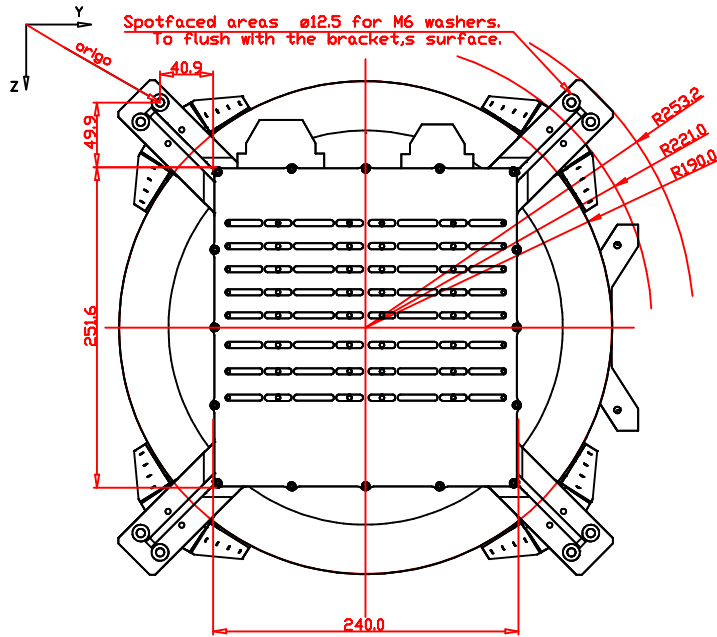


Bottom view



Mechanical Properties:

All bolts and nuts will be tightened according to ESA PSS-03-206 issue 1, page 18-10 (friction coefficient = 0.1), strength grade 8.8 or strength class 70.

Mass:

Flight Model = 27.6 kg

CoG in coordinates (50.7,158.3,175.2)

MoI X-axis = 0.51 kg·m²

Y-axis = 0.56 kg·m²

Z-axis = 0.56 kg·m²

Electrical properties:

Power:

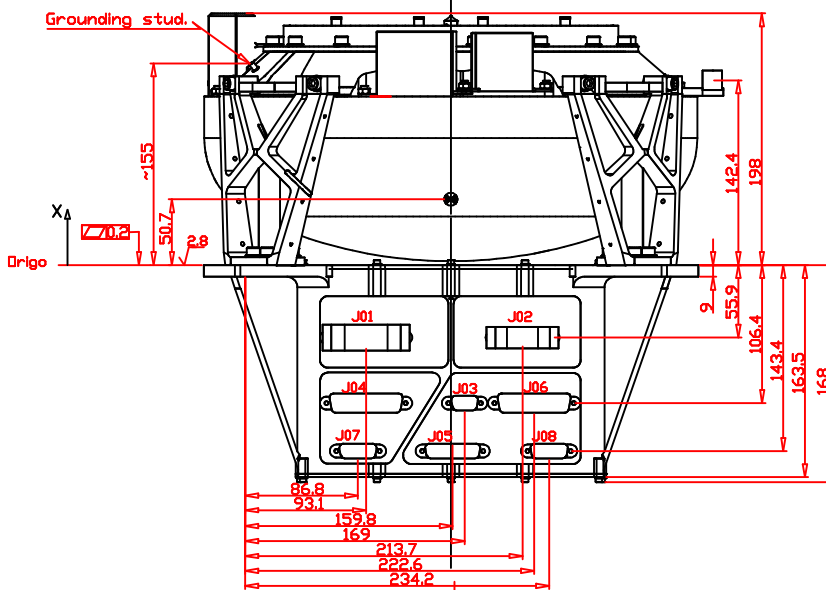
Detector = 5.8W

DFEE = 24.1W

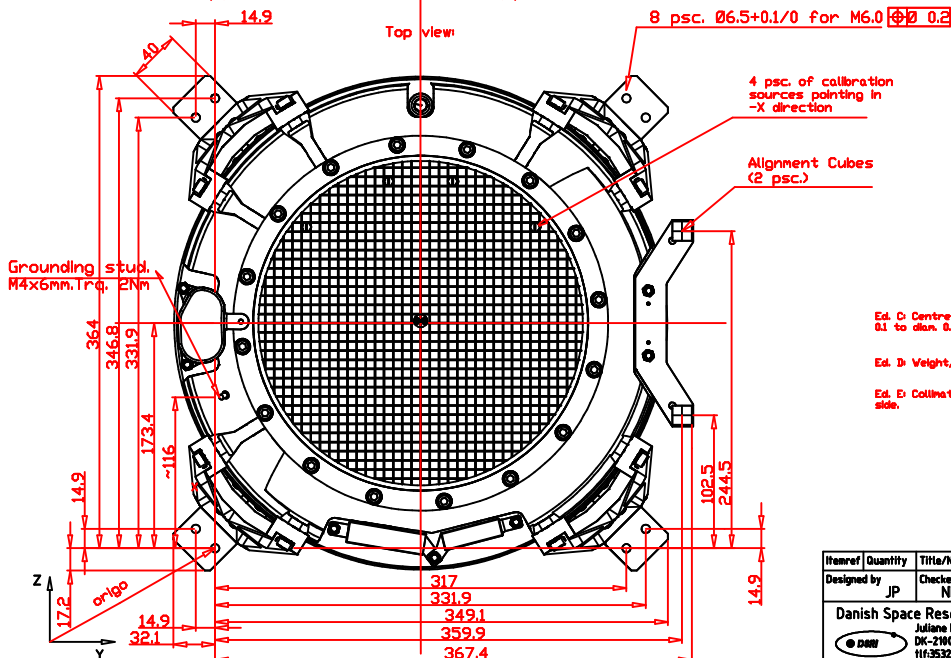
Thermal properties:

Thermal surfaces: All DFEE surfaces are painted with Chemglaze Z306 (emission coefficient = 0.85). The Detector dome has emission coefficient = 0.35. The conical surface of the detector's Main Frame has the emission coefficient = 0.7. Thermistor positions are shown on drawings: JEMX-EMTH/B/1 and Hybrico N543.

Side view



Top view



Ed. D: Centring tolerance for $\varnothing 6.5$ bolt holes in "Alenia" interface changed from 0.1 to diam. 0.2 mm.

Ed. D: Weight, Moment of Inertia and Center of Gravity position, updated.

Ed. D: Collimator turned 180° so calibration sources are placed on the gas inlet side.

| Item/Ref | Quantity | Title/Name, designation, material, dimension etc | Article No./Reference |
|---------------------------------|----------|--|--------------------------------|
| Designed by | JP | Checked by NL | Approved by - date NL-31.08.01 |
| | | Filename | Date |
| | | samling18 | 5-12-2001 |
| | | Scale | |
| Danish Space Research Institute | | | |
| Juliane Maries Vej 30 | | | |
| DK-2100 Copenhagen East | | | |
| 11f:35325830/fax:35362475 | | | |
| Title/Name | | Jem-X; Interface Control Drawing -FM | |
| Drawing number | | JEM - X - 130100 | |
| Edition | | E | |
| Sheet | | 1/1 | |