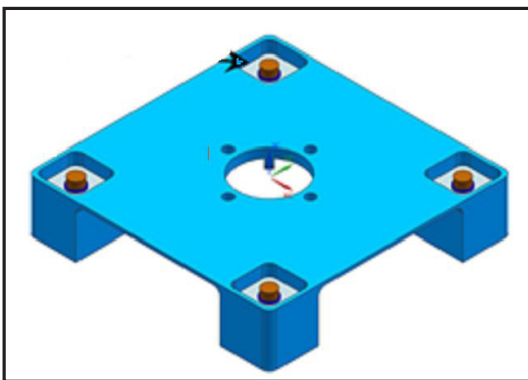


Passive Vibration Isolator for Reaction Wheel

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed Passive Vibration Isolator for Reaction Wheel to mitigate onorbit microvibrations. It should be space qualified and overcome the launch loads and onorbit thermal loads.



Salient Features

Passive vibration isolation device to reduce onorbit microvibrations for spacecraft with optical payloads / instruments with high resolution / sensitivity.

Description

- ✦ Space qualified material is chosen for the isolator. The isolator is designed to have effective isolation for a class of reaction wheel and also to overcome the launch vibrations.
- ✦ The isolator could achieve vibration isolation by 18dB. It is also qualified for launch vibration loads, mission life thermal cycle environment and effective torque transfer.
- ✦ Vibration isolators developed for reaction wheels of 1 Nms and 15Nms class.
- ✦ Isolator configuration: The isolator device can be mounted at the base of the reaction wheel.

Technology Transfer

URSC/ISRO offers to transfer this technology of Passive Vibration Isolator for Reaction Wheels developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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