



Description

Thermal knife HDRMs (Hold Down and Release Mechanisms) are commonly used in CubeSats and other small satellite to constrain deployable before release on orbit. These mechanisms typically use a tensioned melt line to hold a spring – actuated deployable element in place. The line passes over a heating element which thermally cuts the line when activated, releasing the deployable element.

KEY HIGHLIGHT

- TRL9: 100% Success
- Modular Lightweight Hold-down System
- Non explosive Actuation and Release
- No outgassing or particle loss
- Easily resettable with new cable



TECHNICAL SPECIFICATION

Environmental and Mechanical Characteristics

Mass	400-500gr
Standard DC Voltage	12 V
Operational Temperature	-60 to 90 c
Interface Application	125 x 25mm
Release Time	1sec

DRAWING

