

PRODUCT FAMILY

SEPARATION NUT

The separation nut is a pyrotechnic device designed as a high strength, fastening hardware with the ability to separate and/or release components or structures on demand. As a pyrotechnical solution for critical release events, the most common uses include satellite deployment along with clamp release applications for weapons launch systems.

Whether in space, on aircraft or in the sea, dependability is required for mission critical systems needing release mechanisms that are designed and developed for low shock, highly reliable separation nuts for applications in submarine, launch vehicle, satellite, and payload systems. An example would be a HDRM for CubeSat and SmallSat launches. Our Mechanisms are custom made to meet your mission requirements, from the separation nut size to the specific materials, the success of your application is at the center point of our design.



SPECIFICATIONS

- All-Fire: 5.0/20 millisecond pulse
- No-Fire: 1 amp/1 watt for 5 minutes
- Operating Temperature: -65 °F to +225 °F
- Axial Load Retention: Tested with an axial load of 29,500 ± 500 pounds
- Hermesticity (pre-function): Leak rate shall not exceed 2.7 x 10⁻⁵ cc/sec of Helium at 1 atmosphere differential.

ENVELOPE & DIMENSIONS

