

MINI SEPARATION NUT

The Mini Separation Nut utilizes a MIL-I-23659 qualified initiator to cause nut separation when fired. When functioned, the end of the housing containing the threaded nut portion is forcefully driven from the remaining housing to ensure clean separation. The current device is designed for a maximum load of 1500 lbs. Tests have verified a load capacity of >2500 lbs. as built.



APPLICATION

Designed as a release for a canard cover and attaching screw.

PERFORMANCE DATA

Bridgewire Resistance:	1.0 ± 0.1 ohms
Insulation Resistance:	± 50 megohms @ 500 VDC
Electrostatic Discharge:	25 KVDC per MIL-I-23659
No-Fire:	1 amp/1 watt for 5 minutes
All-Fire:	4 amps/15 ms pulse
Function Time:	< 10 ms after application of current
Residual Energy:	< 10 ft lbs with attached screw
Operating Temperature Range:	-25°F to +145°F
Separation:	Must occur within 20 milliseconds
Temperature Shock:	Per MIL-STD-810, Method 503.3 and 502.3 between -40°F and +145°F
Temperature Handle, Loading, Per MIL-STD-810, Methods 501.3 and 502.3	
Ramming and Launch:	

