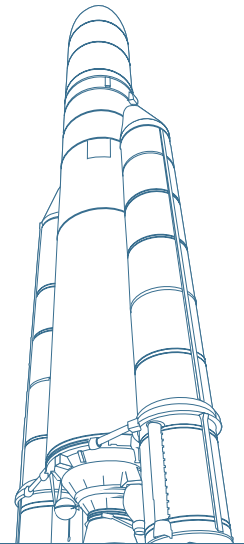


M10 HOLD DOWN AND RELEASE MECHANISM P/N ME0039



Hold down and Release Mechanism designed and qualified for use on a launcher dispenser

SPECIFICATIONS

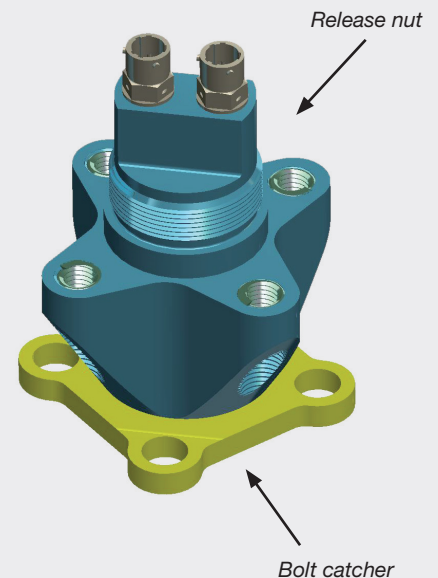
- **Application:** To maintain a preload bolt that attaches separate components, and release it on electrical command
- **Combined load capability:** Longitudinal load: +/- 7600 N
Transverse load: 11200 N
- **Nut and bolt size:** ISO M10 x 1.25
- **Operating time:** ≤ 10 ms
- **Leak rate:** 10^{-4} scc/sec
- **Redundancy:** 2 initiators
- **Reliability:** > 0.9999 with 95% confidence level
- **Initiator:** ESI, DASSAULT, 1 EP WH 160AW

MECHANICAL CHARACTERISTICS OF RELEASE NUT

- **Mass:** ≤ 534 g
- **Housing material:** Aluminum alloy
- **Nut material:** Stainless steel (15-5-PH)
- **Fixing mode:** 4 x ISO M10 x 1.5 thread inserts

ELECTRICAL CHARACTERISTICS OF BOLT CATCHER ASSEMBLY

- **Mass:** ≤ 250 g
- **Housing material:** Stainless steel
- **Bolt material:** Titanium alloy (TA6V)
- **Fixing mode:** 4 holes Ø 12.5 mm



M10 HOLD DOWN AND RELEASE MECHANISM P/N ME0039

ELECTRICAL CHARACTERISTICS

Connection:

SOCAPEX: Ref. 45106 E 82 S
DEUTSCH: Ref. 95106RC82 SN50A499

Bridge wire resistance:

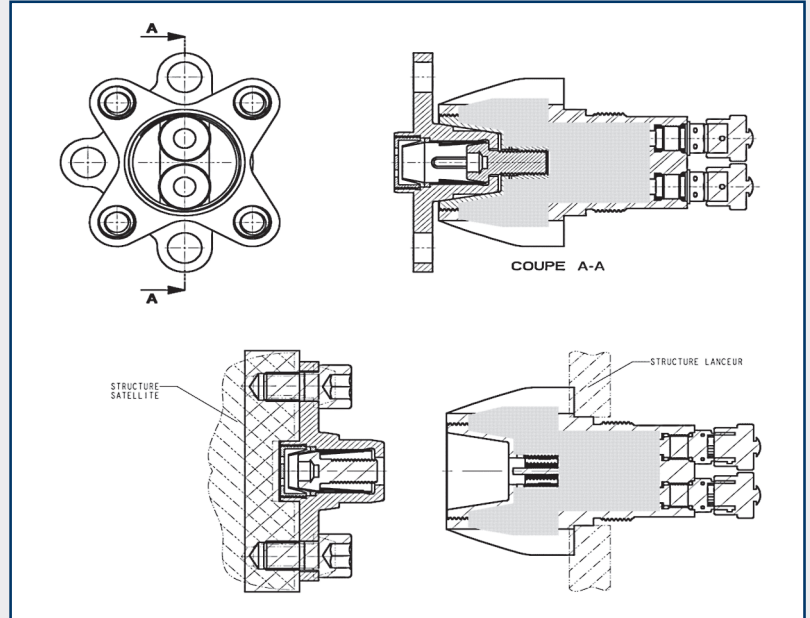
Insulation resistance: > 100 M Ω

"No fire" current: 1A / 1W / 5 min

"No fire" current test: < 50 mA

"All fire" current: 3.1 A

Nominal firing current: \geq 5A
during 10ms



ENVIRONMENT

Acceleration:

40 g - each axis, each direction

Shock: sinus: 100 g

5 msec each axis, each direction

Sinusoidal vibration:

2oct./ min. - 1 sweep

5 - 25 Hz : \pm 19 mm

25 - 62 Hz : 1.5 m/s

62 - 600 Hz : 60 g

600 - 2000 Hz : 30 g

Random vibration: all axes

20 - 50 Hz : + 3 dB/oct

50 - 250 Hz : 2 g²/Hz

250 - 1300 Hz : - 6 dB/oct

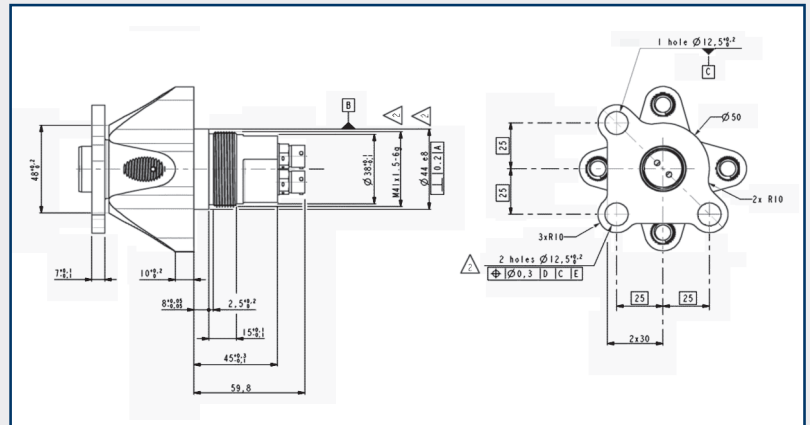
1300 - 2000 Hz : 0.07 g²/Hz

Thermal shock:

6 cycles -90°C up to +120°C

Operating temperature: -50°C to +50°C

Global: 29.6 g RMS



RECOMMENDED STORAGE CONDITIONS

Storage temperature: +10°C up
to +30°C

Humidity: \leq 60%

Storage lifetime: 5 years

Explosive class: 1.4 S

UNO N°: 0173

UNO designation: Release devices,
explosives