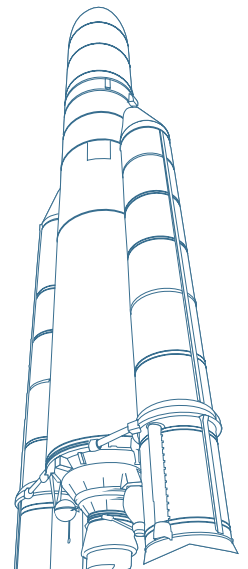


M6 SEPARATION NUT

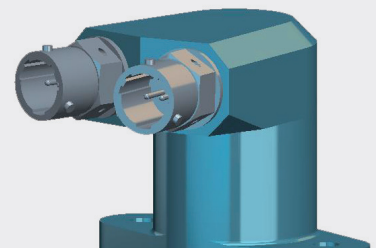
P/N ME0045



Hold down and Release Mechanism designed and qualified for use on satellites

SPECIFICATIONS

- **Application:** To maintain a preload bolt that attaches separate components, and release it on electrical command
- **Nut size:** ISO M6 x 1
- **Bolt tension (pure tensile load):** 3.25 kN to 6.5 kN
- **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

- **Mass:** ≤ 134 g
- **Housing material:** Aluminum alloy
- **Nut material:** Steel (15-5-PH)
- **Fixing mode:** 2 holes $\varnothing 4,5$ mm

ELECTRICAL CHARACTERISTICS

- **Bridgewire resistance:** $1.05 \Omega \pm 0.15 \Omega$
- **Insulation resistance:** > 100 M Ω
- **"No fire" current:** 1A / 1W / 5 min
- **"No fire" current test:** < 50 mA
- **Nominal firing current :** ≥ 5 A during 10ms

ENVIRONMENT

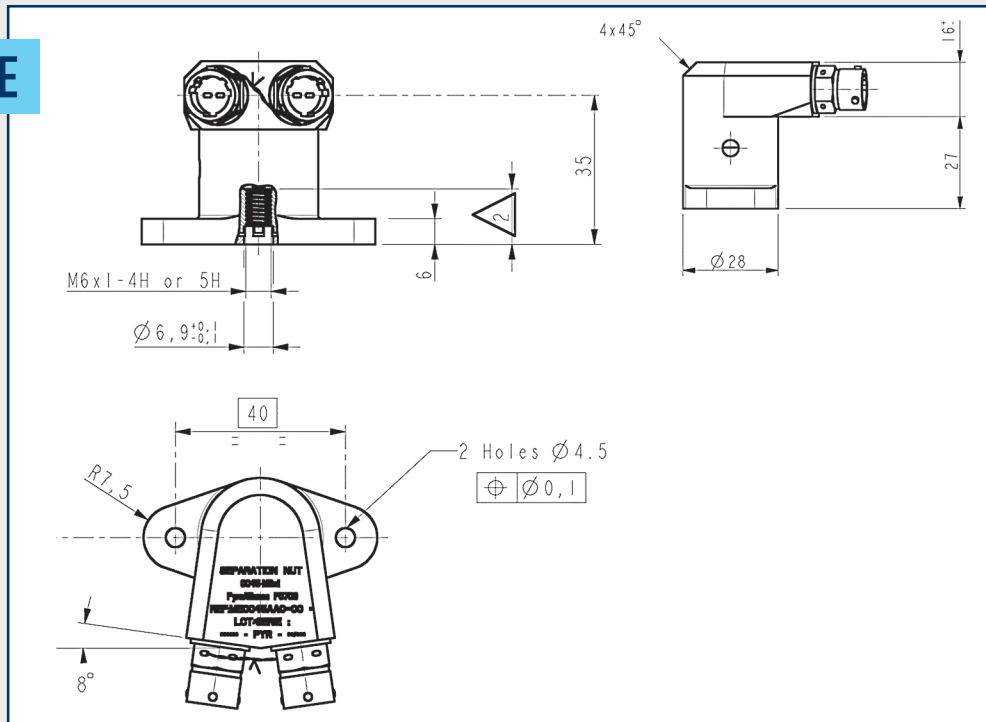
Random vibration: all axes, 2 min/axis
 10 – 100 Hz : + 6 dB/oct
 100 – 1000 Hz : 1 g²/Hz
 1000 - 2000 Hz : 0.3 g²/Hz
 Global: 36.0 g RMS

Thermal shock: 10 cycles -110°C up to +110°C

Thermal vacuum: 10⁻⁶ Torr

Operating temperature: -100°C to +100°C

INTERFACE



RECOMMENDED STORAGE CONDITIONS

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

Humidity: ≤ 60%

Storage lifetime: 8 years

Explosive class: 1.4 S

UNO N°: 0173

UNO designation: Release devices, explosives