



CT-19



The CT-19 Impulse Cartridge is designed to propel flares like the MJU-7 and FL-17 from their case. It is designed as a direct Form, Fit, and Functional (F3) replacement for the BBU-36 impulse cartridge. It ignites instantly upon receiving an electrical signal, generating powerful gas pressure to eject the flare from the aircraft. Once deployed, the flare's incendiary payload burns brightly, creating an infrared decoy. The cartridge's secure O-ring design ensures reliable performance under demanding flight conditions. This cartridge must be installed on the flare immediately before use and stored separately when not in use. The assembled flare is then securely mounted within the aircraft's payload module. It is compatible with both NATO and non-NATO dispensing systems, including the ALE-40/45/47/52, Mohafiz CFD and GT-1P.

Key features

- **Operation without delay:** Engineered to function instantly with a total initiation and deployment response time of **less than 15 milliseconds**, ensuring immediate defense when an incoming missile threat is detected.
- **Glass to metal insulation seal:** Utilizes a highly durable insulation and hermetic seal at the electrical contacts. Cartridge is completely sealed from environment after filling.
- **O-ring seal:** Features a high-integrity elastomer ring seated along the outer metal body casing to provide environmental waterproofing.
- **Non-ITAR Controlled:** Cartridge is not subject to the U.S.
- **Safety in storage and handling:** Rated with a stable **1 Ampere no-fire safety limit** and categorized under **UN Hazard Class 1.4S** the cartridge design is qualified for safe handling.
- **Versatile Compatibility:** Fits into universally standard defensive countermeasure dispenser systems (CMDS) including the **AN/ALE-40, AN/ALE-47, and AN/ALE-52, Mohafiz CFD and GT-1P** allowing it to support multiple aircraft variations worldwide.



Title	Specifications
Length	14mm
Diameter body	18.8 mm (0.74 inch)
Dia Flange	20.5 mm (0.805 inch)
Outer Case	Aluminium
Weight	< 9.5 g (0.34 ounce max)
Explosive Weight	0.8-0.9 grams
No Fire Current	1 A for 5 min
All Fire Current (Iz) Pulse	4.25 A for 15 ms
Bridge wire Resistance	1.0 ± 0.2 Ohm
No fire current	1A for 5 min
All fire current	4.25 A
Ignition delay	Less than 15 ms
Hazard code	1.4S
Shelf Life	10 yrs
Service Life	1 yr
Autoignition	300°F for 60 min
UN Number	UN0454
Intended use	for Aircraft Countermeasures