



## CT-14



The CT-14 is a pyrotechnic device used to deploy aircraft countermeasures such as chaff (CH-16, RR-170, RR-188,) and infrared flares (M206). It is designed as a direct Form, Fit, and Functional (F3) replacement for the BBU-35 impulse cartridge. Upon receiving an electrical signal from the aircraft's countermeasures dispensing system, it rapidly generates gas pressure to eject these payloads, thereby protecting the aircraft from radar-guided and heat-seeking missile threats. It is a form-fit-functional replacement of BBU-35 cartridges used under NATO/US designation.

### Key features

- **Electrical Initiation:** Activated by applying an electrical pulse from the aircraft to the internal bridge wire.
- **Rapid Response:** Features a fast ignition delay or function time, typically under 20 milliseconds, for immediate threat reaction.
- **Standardized Interface:** Designed with consistent physical dimensions and electrical characteristics (e.g., ~1 Ohm resistance, 4.25A all-fire current) for compatibility across different aircraft platforms.
- **Robust Safety:** Includes clear "No Fire" current ratings, 1A) to prevent accidental initiation.
- **Pressure-Based Ejection:** Generates a controlled gas pulse within a specific pressure range to reliably deploy countermeasure payloads.



Title	Specification
<b>Length</b>	13-14 mm (0.512- 0.551 inch)
<b>Body Diameter</b>	12.57/12.67 mm (0.495/ 0.499 inch)
<b>Rim Diameter</b>	16 mm (0.63 inch)
<b>Case Material</b>	Aluminium
<b>Mass / Weight</b>	4.5 g
<b>Explosive Weight</b>	0.4 g
<b>No Fire Current</b>	1 A for 5 min
<b>All Fire Current (Iz) Pulse</b>	4.25 A for 15 ms
<b>Autoignition</b>	300°F for 60 min
<b>Bridge wire Resistance</b>	1.0 ± 0.15 Ohm
<b>Pressure Bomb Volume</b>	45 cm <sup>3</sup>
<b>Pressure</b>	33 Bar nominal
<b>Time to Peak Pressure</b>	60 ms nominal
<b>Shelf Life</b>	10 yrs
<b>Service Life</b>	1 yr
<b>ADR / Hazmat</b>	1.4S
<b>UN Number</b>	UN0454
<b>Intended use</b>	for Aircraft Countermeasures