



THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

M782 Multi-Option Fuze for Artillery (MOFA)

The M782 Multi-Option Fuze for Artillery (MOFA) provides the warfighter with a multi-option fuze to perform all fuze functions. It is an inductively set multi-purpose fuze. The soldier can set MOFA in <1.5 seconds, using the Northrop Grumman produced M1155A1 Enhanced Portable Inductive Artillery Fuze Setter (EPIAFS), to operate in one of four (4) function modes:

- Proximity (HOB): Functions 9 to 10 meters over normal terrain
- Point Detonation (PD): On target impact in PD Super Quick mode
- Time: 0.5 seconds to 199.9 seconds; PD in backup mode
- Delay: 5 to 10ms after impact

Applications

MOFA is operable with 105mm and 155mm artillery systems and with all bulk-filled projectiles such as high-explosive rounds or illuminating rounds.

Qualification and Production Data

- First article - June 2004
- Full-rate production - June 2004 to 2009
- Produced and delivered - More than 599,000 from 2004 to 2009

Product Features and Benefits

- A single fuze serves multiple missions
- Reduces the logistics burden by replacing seven legacy fuzes with a single fuze
- Custom proximity sensor with transceiver and integrated circuits to achieve superior performance
- Four operation modes: Proximity, Point Detonation; Time and Delay

Specifications

Technical Data

Weight: 1.85 lb (0.839 kg) max
Length: 5.87 lb (149.09 mm) max
Diameter: 2.420 in (61.46 mm) max

Performance Data

Mission duration: 50 kilometers (max); 200 sec (max)
Aiming distance: 105 mm = 45 meters (min)
155 mm = 65 meters (min)
HOB accuracy: 95 percent lethality range
Time accuracy: 0.1 sec accuracy up to 50 kilometers
Reliability: Time, PD and delay modes: >0.97
Proximity mode: >0.95
Storage life: 20 years (controlled)
2 years (uncontrolled)
Post-launch power: 30 mAhr capacity



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