

# 1DT100 Electric Detonator

The 1DT100 Electric Detonator is used in fuzing applications.



*It is a wire bridge detonator designed for capacitive discharge firing.*

## Characteristics

EaglePicher's 1DT100 is a form, fit, and function replacement for the M100 detonator. The characteristics listed may be tailored to meet specialized customer requirements. Please consult an EaglePicher representative for additional application data.

Specifications	
<b>Electrical</b>	
Resistance @ 70°F (21°C)	3.0 -7.5 ohms
All-Fire Current @ 70°F (21°C)	1.6 Vdc max. through a 100 microfarad capacitor
Insulation Resistance	50 megohms minimum at 500 Vdc
<b>Mechanical</b>	
Size	See Drawing (next page)
Case Material	Aluminum alloy 1100-0
Lead Material	Glass sealing alloy, 42-6 (Ni-Cr-Fe alloy), gold-plated.
Output	Will produce a minimum of .005 inch (.127 mm) dent when detonator is initiated against a mild steel block of R <sub>b</sub> 70-95 hardness.

Specifications Continued	
<b>Environmental</b>	
Temperature	Operating range: -65°F to +165°F (-54°C to +74°C)
Waterproofness	48 hour immersion at a depth of 2 to 3 inches at a water temperature of 70°F ± 10°F.
Thermal Shock/Vibration	2 hours at -65°F ± 5°F; transfer immediately to chamber at +165°F ± 5°F for 2 hours; immediately transfer to vibration for 15 minute sweep covering the frequency range of 25-500-25 cycles per second parallel to the transverse orthogonal axis with the base charge down and a 2 ± .2 g's peak.
<b>Chemical</b>	
Ignition Material	Lead Styphnate
Output Material	Lead Azide and HMX
<b>Freight Classification</b>	
Shipping Name	Detonator, Electric
Hazard Classification	1.45

# 1DT100

## Safety

### Maximum explosive weight:

40 mg

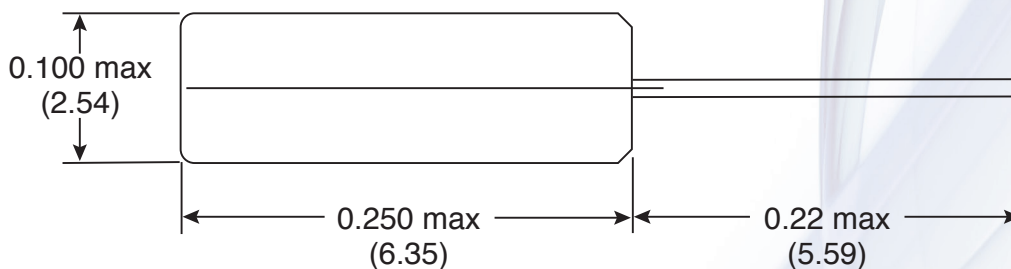
### Warning:

Detonators are sensitive to static electricity, electric current, heat, friction and shock. They explode with great force and their accidental firing under unprotected conditions may cause severe injury.

Most companies that buy detonators are already aware of the hazards involved in their handling and use, and have effective safety programs to protect against those hazards.

If your company does not have a safety program, it is essential that one is established before explosive items are handled or used. For a brief overview of safety precautions, see the Safety Procedures Data Sheet or contact an EaglePicher representative.

Energetic devices are considered articles, therefore a Material Safety Data Sheet (MSDS) does not apply. However, MSDS may apply to individual components. For more information, contact your EaglePicher representative.



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