EAGLEPICHER TECHNOLOGIES

1DT500 Electric Detonator

The 1DT500 Electric Detonator is used in fuzing applications.

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

Characteristics

The characteristics listed describe the response of this detonator to the representative specifications. There are no limits on design capabilities. Please consult an EaglePicher representative for additional application data.

Specifications

Electrical	
Resistance @ 70°F (21°C)	2.5 ± 4.0 ohms
All-Fire Current @ 70°F (21°C)	20 Vdc, through a 4.7 microfarad capacitor
Insulation Resistance	22 megohms minimum at 325 Vdc per MIL-STD-202, Method 301 (between shorted leads and case).
Mechanical	
Size	See Drawing
Case Material	Aluminum alloy 1100-0
Lead Material	Nickel iron alloy, class 6, 42-6, alloy clad copper 3-1 ratio, spec MIL-1-23011.
Output	Will produce a minimum of .005 inch (.127 mm) dent when detonator is initiated against a mild steel block of R_b 70-95 hardness.

Specifications Continued

Environmental	
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 75°F ± 5°.
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.
Chemical	
Ignition Material	Lead Styphnate
Output Material	Lead Azide and HMX
Freight Classification	
Shipping Name	Detonator, Electric
Hazard Classification	1.4S

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1DT500

Safety

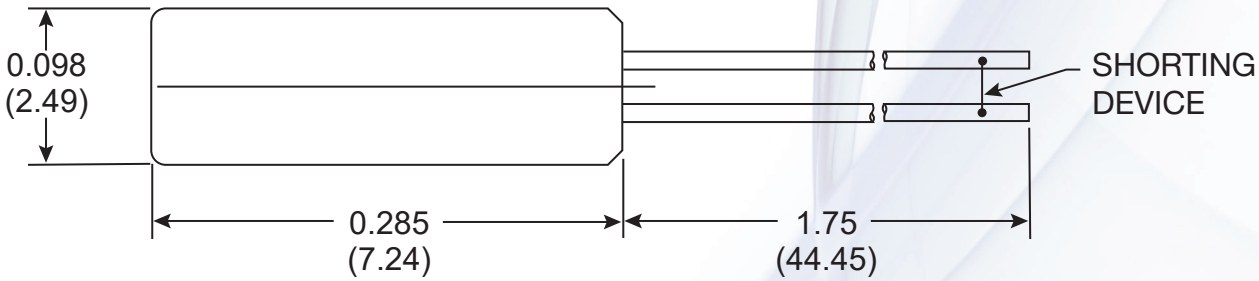
Maximum pyrotechnic weight:
40 mg

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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