EAGLEPICHER
TECHNOLOGIES

Igniters

These devices use a precisely controlled pyrotechnic reaction to produce a specified output of hot particles.

Applications include:
- Igniting safety fuses
- Propellants or heat powders
- Thermal batteries
- Metal oxidant mixes
- Other deflagrating materials.

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EAGLEPICHER TECHNOLOGIES

EP-200 Igniter

The EP-200 Electric Igniter is a highly reliable electroexplosive device.

A typical function of an electric igniter is to activate thermal batteries, propellants, or other fuels.

Variations

Variations can be made in firing characteristics, output charge and overall configuration to accommodate customer requirements. For these or other possible alterations please consult an EaglePicher representative.

Characteristics

Some of the characteristics listed here are nominal; others are levels to which the units have been tested. There are no limits on design capabilities. Please consult an EaglePicher representative before using this data as a specification.

Specifications

Electrical	
Pre-fire Insulation Resistance	20 megohm minimum at 500 Vdc per MIL-STD-202. Method 302 (between shorted leads and case).
Electrostatic Discharge	25kV from a 500 picofarad capacitor with a 5 kohm resistor in series without firing (between shorted leads and case).
Additional Electrical Characteristics	See chart at end of section
Mechanical	
Size	See Drawing
Weight	0.7 gm Max.
Case	Nickel plated gilding metal
Lead	0.030" diameter
Caloric Output	35 calories nominal
Chemical	
Ignition Compounds	LMNR/$KCLO_3$
Output Compound	Zirconium Ferric Oxide
Freight Classification	
Shipping Name	Igniter
Identification Number	UN0325
Hazard Classification	1.4S

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EP-200

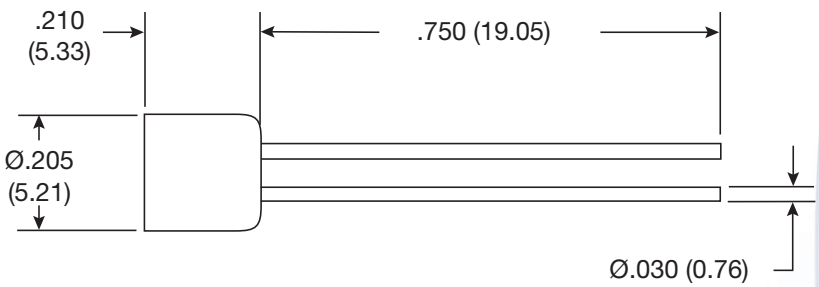
Safety

Maximum pyrotechnic weight:
60 mg

Warning:
The igniter may fire if exposed to temperatures above 350°F (176°C), an electrical charge exceeding the specified no-fire current, or if it is cut open before functioning. When the unit fires, hot gases are discharged through the output end.

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.



DIMENSIONS ARE NOMINAL
DIMENSIONS IN ( ) ARE IN MM

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EAGLEPICHER TECHNOLOGIES

EP-210 Igniter

The EP-210 Electric Igniter is a highly reliable electroexplosive device.

A typical function of an electric igniter is to activate thermal batteries, propellants, or other fuels.

Variations

Variations can be made in firing characteristics, output charge and overall configuration to accommodate customer requirements. For these or other possible alterations please consult an EaglePicher representative.

Characteristics

Some of the characteristics listed here are nominal; others are levels to which the units have been tested. There are no limits on design capabilities. Please consult an EaglePicher representative before using this data as a specification.

Specifications

Electrical	
Pre-fire Insulation Resistance	20 megohm minimum at 500 Vdc per MIL-STD-202. Method 302 (between shorted leads and case).
Electrostatic Discharge	25kV from a 500 picofarad capacitor with a 5 kohm resistor in series without firing (between shorted leads and case).
Additional Electrical Characteristics	See chart at end of section
Mechanical	
Size	See Drawing
Weight	1.1 gm Max.
Case	Nickel plated gilding metal
Caloric Output	70 calories nominal
Chemical	
Ignition Compounds	Boron Calcium Chromate KDNBF
Output Compound	Zirconium Ferric Oxide
Freight Classification	
Shipping Name	Igniter
Identification Number	UN0325
Hazard Classification	1.4S

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EP-210

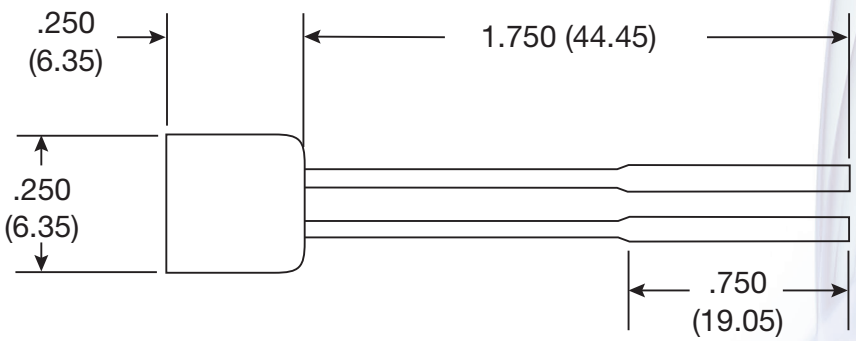
Safety

Maximum pyrotechnic weight:
75 mg

Warning:
The igniter may fire if exposed to temperatures above 350°F (176°C), an electrical charge exceeding the specified no-fire current, or if it is cut open before functioning. When the unit fires, hot particles and gases are discharged through the output end.

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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EAGLEPICHER TECHNOLOGIES

EP-250 Igniter

The EP-250 Electric Igniter is a highly reliable, electroexplosive device.

A typical function of an electric igniter is to activate thermal batteries, propellants, or other fuels.

Variations

Variations can be made in firing characteristics, output charge and overall configuration to accommodate customer requirements. For these or other possible alterations please consult an EaglePicher representative.

Characteristics

Some of the characteristics listed here are nominal; others are levels to which the units have been tested. There are no limits on design capabilities. Please consult an EaglePicher representative before using this data as a specification.

Specifications

Electrical	
Pre-fire Insulation Resistance	20 megohm minimum at 500 Vdc per MIL-STD-202. Method 302 (between shorted leads and case).
Electrostatic Discharge	25kV from a 500 picofarad capacitor with a 5 kohm resistor in series without firing (between shorted leads and case).
Additional Electrical Characteristics	See chart at end of section
Mechanical	
Size	See Drawing
Weight	1.1 gm Max.
Case	Nickel plated gilding metal
Caloric Output	85 calories nominal
Chemical	
Ignition Compounds	Boron Calcium Chromate Boron Barium Nitrate LMNR/$KCLO_3$
Output Compound	Zirconium Ferric Oxide
Freight Classification	
Shipping Name	Igniter
Identification Number	UN0454
Hazard Classification	1.4S

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EP-250

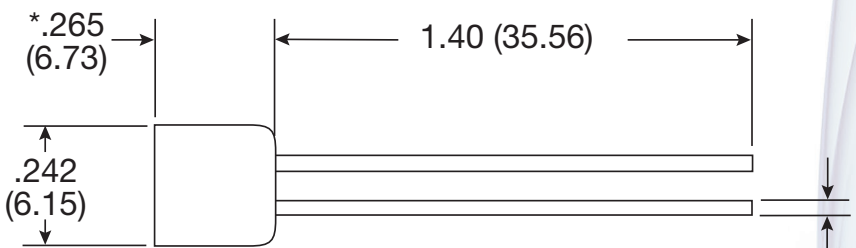
Safety

Maximum pyrotechnic weight:
110 mg

Warning:
The igniter may fire if exposed to temperatures above 350°F (176°C), an electrical charge exceeding the specified no-fire current, or if it is cut open before functioning. When the unit fires, hot particles and gases are discharged through the output end.

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.



*.275 (6.99) max for "x" part numbers

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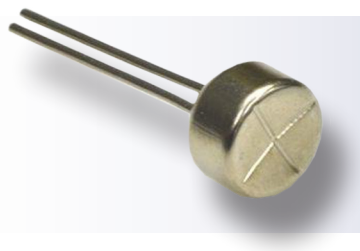
EP-360 Igniter

The EP-360 Electric Igniter is a highly reliable, electroexplosive device.



A typical function of an electric igniter is to activate thermal batteries, propellants, or other fuels.

Variations

Variations can be made in firing characteristics, output charge and overall configuration to accommodate customer requirements. For these or other possible alterations please consult an EaglePicher representative.

Characteristics

Some of the characteristics listed here are nominal; others are levels to which the units have been tested. There are no limits on design capabilities. Please consult an EaglePicher representative before using this data as a specification.

Specifications

Electrical	
Pre-fire Insulation Resistance	20 megohm minimum at 500 Vdc per MIL-STD-202. Method 302 (between shorted leads and case).
Electrostatic Discharge	25kV from a 500 picofarad capacitor with a 5 kohm resistor in series without firing (between shorted leads and case).
Additional Electrical Characteristics	See chart at end of section
Mechanical	
Size	See Drawing
Weight	1.8 gm Max.
Case	Nickel plated gilding metal
Caloric Output	85 calories nominal
Chemical	
Ignition Compounds	Boron Calcium Chromate
Output Compound	Zirconium Ferric Oxide
Freight Classification	
Shipping Name	Igniter
Identification Number	UN0454
Hazard Classification	1.4S

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EP-360

Safety

Maximum pyrotechnic weight:
110 mg

Warning:
The igniter may fire if exposed to temperatures above 350°F (176°C), an electrical charge exceeding the specified no-fire current, or if it is cut open before functioning. When the unit fires, hot particles and gases are discharged through the output end.

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.

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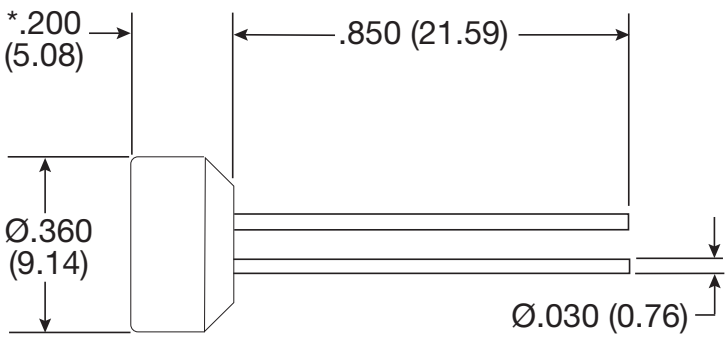

*.235 (5.97) max for "x" part numbers

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