

What is a detonation capacitor?

These applications require a number of specialty components including capacitors that discharge high energy at temperatures up to 200°C. Typically, detonation capacitors initiate an explosion by delivering a pulse of energy that's previously charged up and stored in the ceramic field between the capacitor plates.

How do detonation capacitors explode?

Typically, detonation capacitors initiate an explosion by delivering a pulse of energy that's previously charged up and stored in the ceramic field between the capacitor plates. Then, the stored energy is released through the electrodes.

How do pulse energy capacitors work?

Then, the stored energy is released through the electrodes. Pulse energy capacitors are built specifically to handle reliable operation under single or multiple pulse conditions. They employ a method of detonation that requires firing into exploding foil initiators (EFI) to avoid premature explosion.

What is the exploding-bridgewire detonator patent?

Image from the exploding-bridgewire detonator patent. Fig. 2 is a detail of Fig. 1. The exploding-bridgewire detonator (EBW, also known as exploding wire detonator) is a type of detonator used to initiate the detonation reaction in explosive materials, similar to a blasting cap because it is fired using an electric current.

What is a detonator without a booster?

Detonators without such booster are called initial pressing detonators (IP detonators). During initiation, the wire heats with the passing current until melting point is reached. The heating rate is high enough that the liquid metal has no time to flow away, and heats further until it vaporizes.

What is a fat man EBW detonator?

The Fat Man Model 1773 EBW detonators used an unusual, high reliability detonator system with two EBW "horns" attached to a single booster charge, which then fired each of the 32 explosive lens units.

An electric detonator can be very useful when you are working with fireworks or if you like to experiment just like us. Things can go wrong when you are making your own pyrotechnics. This is why it's very important to have some kind of a ...

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Electronic Detonators contain ...

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The well known Exploding Foil Initiator (EFI), also called slapper detonator, is formed by a small capacitor that is used to burst a very thin copper bridge to accelerate a dielectric flyer plates to high velocities enough to initiate the secondary explosive. The...

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This article written by John Lee KYOCERA-AVX Corporation delves into essential parameters for choosing capacitors for electronic detonator applications, focusing on the benefits of integrating tantalum capacitors. ...

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