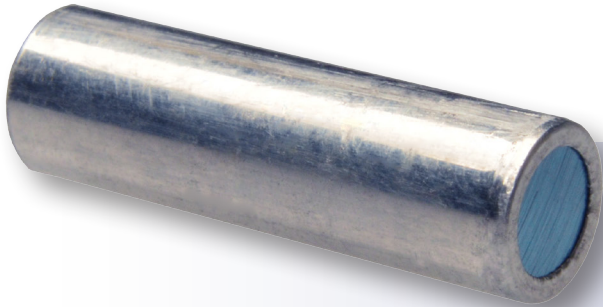


1DT115 Explosive Lead



Explosive leads are typically used as the moveable part of the detonation train.

Explosive leads achieve the desirable out-of-the-line fuze position for safety.

Lead Function

The lead when properly initiated will produce a minimum dent of .010 inch (0.254 mm) when functioned in accordance with MIL-STD-331, Test 301, using a steel dent block with a Rockwell hardness of B75 to B95.

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 | |
| Resistance | 2.0 Ohms to 7.0 Ohms between Pin and Case at 2 MA Max between -65°F and +160°F |
| All Fire Current | 4.7 Microfarad Capacitor Charged to 23 Volts DC |
| No-Fire | Minimum No-Fire: 20 Milliamps for 5 Minutes |
| Mechanical | |
| Size | See Drawing |
| Cup Material | Corrosion Resistance Steel, Type 305 Condition A |
| Finish | Gold Plate per MIL-G-45204, Type II, .00005 to .00015 Thick over Nickel Plate per QQ-N-290, Class 2 .00010 to .00015 Thick |
| Output | Will Produce a Minimum Depth of 0.010 Inch when initiated against a mild steel Block of Rb 70-95 |
| Function Time | Detonator Shall Function within 20 Microseconds from initial application of the All-Fire |

| Specifications Continued | |
|--------------------------|---|
| Environmental | |
| Temperature | -65° F to +160°F |
| Low Pressure | Operating: Atmospheric Pressure Equivalent to 0 to 10,000 ft. (above mean sea level) Non-Operating: Atmospheric Pressure Equivalent of 0 to 40,000 ft. (above mean sea level) |
| Temperature and Humidity | Subjected to one 14 Day Temperature and Humidity cycle in Accordance with MIL-STD-331 test 105 |
| Shock | Terminal Peak Sawtooth Shock Pulse Peak Value of 50G, 11 Milliseconds Applied in each Direction along each of 3 Mutually Orthogonal Axes, Two Shocks per Direction (12 Shocks) |
| Vibration | Non Operational: Sinusoidal Cycling with a sweep Time of 12 Minutes from 5 to 200 to 5 Hz and the acceleration Level equal to 1.5G (Peak) applied Along 3 Mutually Orthogonal Axes for 84 Minutes (252 Minutes Total) Operating: Random Vibration Over the Frequency Range of 20 to 2,000 Hz, F1 equals 268 F2 Equals 1268 and Spectral Density Levels of W1 Equals .040 G2/Hz and W2 Equals .10 G2/Hz per MIL-STD-810 Applied Along Each of 3 Mutually Orthogonal Axes for 60 Minutes (180 Minutes Total) |
| Hermetic Seal | Each Detonator is Hermetically Sealed Using Solder. Leak rate Shall not Exceed 10-6 Atmospheric Cubic Centimeters per Second of Air. |
| Storage Life | Detonator Shall Meet All requirements After 10 Years |
| Freight Classification | |
| Shipping Name | Not Yet Determined |
| Hazard Classification | Not Yet Determined |

1DT115

Safety

Maximum pyrotechnic weight:

480 mg

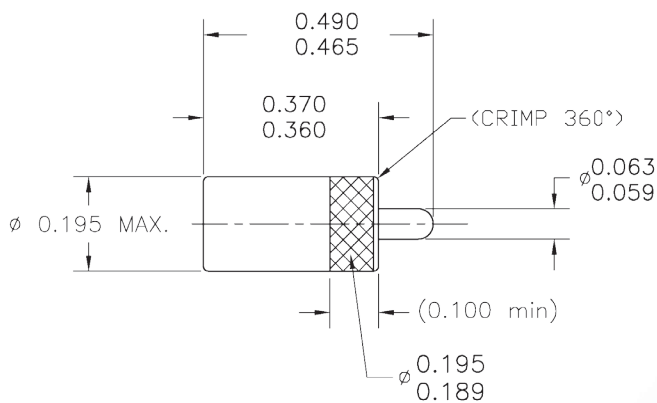
Warning:

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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