

EP-405X Lanyard Start Assembly



The EP-4051, EP-4052, and EP-4053 Lanyard Start Assemblies are manually activated current source devices.

A thermal battery with "sea-sense" capability is primer activated upon the release of a firing pin.

Variations

Electrical interface can be tailored to specific applications. MIL-DTL-38999 Series II class Y is standard.

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 | |
|----------------|--|
| Current Output | 3.8 amperes (minimum) |
| Risetime | 150 msec (maximum) |
| Lifetime | 30 msec (minimum) |
| Resistive Load | 2.1 ± 0.1 Ω |
| Sea Sense | 1.4K Ω (maximum) |
| Mechanical | |
| Size | See Drawing |
| Case | Anodized aluminum alloy |
| Hermetic Seal | 5 x 10 ⁻³ std. cc/sec maximum |
| Lead | 0.030" diameter |
| Caloric Output | 20 calories nominal |

Specifications Continued

| Environmental | |
|------------------------|--|
| Temperature | Operating Range: -22°F to +130°F (-30°C to +54°C) Storage Range: -40°F to +140°F (-40°C to +60°C) |
| Temperature Shock | One cycle of +130°F to +28°F to +20°F to +94°F |
| Shock | 60-400 G at 1-50 msec duration |
| Vibration | Narrow Band Sine; 6-500-6 Hz Broad Band Sine; 6-2000-6 Hz Sine Dwell; 11-44 Hz Random; 15-2000 Hz |
| Internal Pressure | 2.7 psia - 64.7 psia |
| External Pressure | High; Hydrostatic pressure 2500 psig Low; Hydrostatic pressure 3 psig |
| Temperature Humidity | 95% rel. humidity @ 140°F |
| Salt Fog | Per MIL-STD-810C, Method 509.1, Procedure 1 |
| Sand & Dust | Per MIL-STD-810C, Method 510.1, Procedure 1 Mod. |
| Acceleration | 20-50g |
| Chemical | |
| Thermal Battery | LiAl/FeS ₂ |
| Freight Classification | |
| Shipping Name | Lanyard Start Assembly |
| Identification Number | Not regulated as Class 1 |
| Hazard Classification | Not regulated as Class 1 |

Safety

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.



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