

PRODUCT FAMILY

PYROFLARE IGNITER

Designed for mission critical applications, this pyroflare igniter is a specialized initiator that produces high-temperature gas and particles for ignition of fuel for turbojet engines. The output can be customized to specific performance factors for small or large turbojet engines. Small turbojet engines are often utilized in single usage applications such as reconnaissance drones, cruise missiles, decoy and other weapon applications including air-launched and ground-launched weapon systems. The use of such an engine greatly extends the range of the weapon in comparison to the more conventional solid fuel rocket engine. PacSci EMC has customized the pyroflare to specific missile and drone applications. Initiated with a 1 amp/1 watt electro-explosive device (EED) which can be initiated with standard aircraft battery power. With the addition of a PacSci EMC Start Cartridge, you have all the components for a tailored engine start system for your program.



PERFORMANCE

All-Fire:	4.5 amp, 10 msec pulse
No-Fire:	1.0 amp/1.0 watt for 5 minutes
Function Time:	5-7 seconds (can be adaptable to application)
Flame Temperature:	3362 °F
Flame Length:	1.5 to 5.5 inches
Caloric Output:	500 calories per second
Operating Temperature Range:	-65 °F to +160 °F

MECHANICAL CHARACTERISTICS

- M10 male thread (can be adaptable to application)
- Stainless steel material
- Hermetically sealed
- Less than 1.0 in3 volume
- Weighs less than 75 grams

ELECTRICAL CHARACTERISTICS

- Bridgewire Resistance: 1.0 +/- 0.2 ohms
- Insulation Resistance: 100 megohms 500 VDC
- Electrostatic Discharge: 25 kV DC from 500 pF Cap through a 5k ohm resistor - shorter pins to case and pin-to-pin
- Mil Spec Connector interface can be adaptable with pig tail to Mil Spec Connector

ENVELOPE & DIMENSIONS

