

EP-4054 Power Module



EaglePicher qualified the EP-4054 to CAD/PAD Joint Program Office ACES II requirements for the JN25 Power Module and is deemed a qualified source of supply.

Functional Description

The EP-4054 Power Module is comprised of a manifold with two internal firing mechanisms that activate two thermal batteries. The power module is activated by pneumatic pressure which drives a firing pin into each thermal battery's primer. Once activated, the thermal batteries provide power to the ACES II ejection seat's Digital Recovery Sequencer. Before activation, a temperature sensitive indicator stripe on each thermal battery will be pink and upon activation the indicator stripes will turn purple.

Specifications

Part Number	EP-4054
NSN	1377-01-625-4503ES
Operational Environments	-40°F to 160°F
Activation Pressure	400 to 650 psi at an onset rate of 20,000 to 40,000 psig/sec of air pressure
Battery Rise Time	22 volts within 80 ms at -40°F and 160°F
Battery Output Voltage	22 volts minimum/60 volts maximum
Battery Operational Life	300 seconds

Characteristics

Some of the characteristics listed here are nominal; others are levels to which the EP-4054 has been tested. Please consult an EaglePicher representative before using this data as a specification.

