

PRODUCT FAMILY

THRU BULKHEAD INITIATOR

A Thru Bulkhead Initiator (TBI) is an initiation device that utilizes a shock input stimulus where the TBI donor charge initiates and transfers a shock wave through an adjacent structural bulkhead with sufficient intensity to cause the initiation of a receptor charge on the opposite side of the bulkhead. The TBI provides a detonation or deflagration at the output end of the device without breaching the bulkhead which is designed to provide a pressure containment barrier post functioning.



APPLICABLE SPECIFICATIONS

Shock Input:	FCDC (equiv. 1 grain HNS), detonator
Output Deflagration:	Tailored peak output performance in 10cc closed bomb
Detonation:	0.017-inch dent depth in Aluminum witness plate
Ignition Time:	≤ 10 milliseconds
Operating Temperature:	Designs with operating temperature down to -65 °F and up to 400 °F
Leakage (pre-function):	Designs that comply with 1x10 ⁶ cc He/sec at 1 atm
Pressure Containment (post function):	Designs to withstand up to 25,000 psig
Applicable Specifications:	MIL-STD-1901A MIL-HDBK-83578

ENVELOPE & DIMENSIONS

