PRODUCT FAMILY

LASER INITIATOR

Laser initiators perform the same roles as conventional initiators although they use an alternate activation method – infrared laser light. The initiator output can be catered to either favor sustained pressure for performing mechanical work, or to emphasize hot par ticles for igniting adjacent energetics. Laser initiated devices offer unique characteristics over electrically ignited devices. They are ESD, RF and EMI/EMP immune which can be advantageous in certain design applications. They also generally present a system weight reduction for cabling because the fiber optic lines weigh less than typical copper lines and energetic transfer lines. We have qualified designs which utilize 100, 200 and 400 micron fiber optic cable assemblies. Any of the current designs can be adapted to other specified fiber optic systems.

Reliability and safety have been demonstrated on these designs as attested by the approval of range safety and man rated system uses.

APPLICABLE SPECIFICATIONS

All-Fire:	Within 20 milliseconds @ 3.5 amp (when electrically initiated)
	Within 10 milliseconds from ETL input stimulus
No-Fire:	>5 Minutes @ 1amp/1watt (when electrically initiated)
Operating Temperature:	-90 °F to +220 °F
Piston Travel Distance:	.15 to 2.50 inches typical
Side Loads:	100 – 1,700 lbs. force typical

ENVELOPE & DIMENSIONS