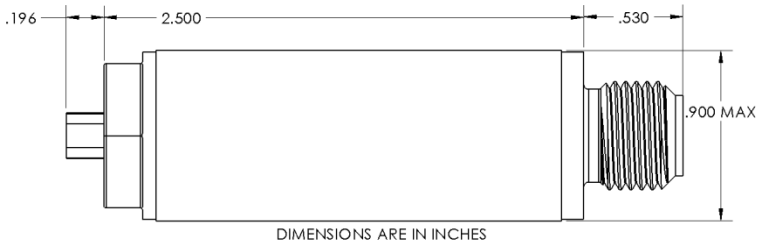
TELEDYNE ENERGETICS
A Teledyne Technologies Company

EFI ISD (Ignition Safety Device)

- Assemblies are complete containing safety logic, high voltage generation, EFI, TBI and output charge.
- High voltage EFIs are inherently much safer than low voltage hotwire devices.
- EFI is qualified to MIL-DTL-23659F, Appendix A.
  - Meets energetic materials requirements of MIL-STD-1901 & MIL-STD-1316 for in-line high voltage devices, (HNS IV, CH-6 & BKNO3)
  - The EFI contains no primary explosives. *There is no ZPP, lead azide or lead styphnate in these devices.*
- Applications include:
  - Solid Rocket Motor Ignition.
  - Pressure cartridge applications requiring high pressure/high temperature seal provided by a solid metal bulkhead in the TBI.
- Also available in fully redundant, dual fireset/EFI/TBI configurations



Export Status	ITAR IV(6)
Thread size	9/16-24, (larger sizes available)
Mating port & O-ring	Recommend port/boss dimensions & O-ring per SAE J1926-1
Electrical connector options	9 pin Micro D (triple start, 38999 type connecter also available)
Construction	Welded hermetic: 304L stainless housing, glass to metal seals, stainless closure
Hermetic seal	1.0×10^{-6} atm cc/sec air
Operating temperature	-40°C to +71°C
Storage temperature	-65°C to +85°C
Thermal Shock/Humidity	MIL-STD-331, Test C1, Two Chamber Method, 28 days, -54°C to +71°C
Random Vibration	MIL-STD-220, 0.5ms duration, ½ sine, 2000g, 18 shocks
Mechanical Shock	MIL-STD-331, Test B3, using the level of Table B3-1 for general fuzes
ESD	Safe for 25KV human body model exposure with ESD cap installed
Peak Pressure	850 psi in 10cc volume (other pressure outputs available)
Post fire pressure capability	>22,000 psi. after passing $>10^{-8}$ atm cc/sec He
Storage Life	10 years

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