



Ruggedized crystals design are mainly used in the fields of petroleum logging and geological exploration. Due to the harsh environment to be involved like high temperature above 150 degree C, certain shock and vibration, these crystals have to be applying with unique resistant material and special package technology.



Epic Crystal offer series of ruggedized crystals including NaI(Tl), CsI(Na), LaBr₃(Ce) and CeBr₃. They have excellent mechanical shock resistance, temperature shock resistance and long lifetime. Whether used in wireline or measurement while drilling(MWD), our crystals are good choice for both reliability and performance.

Specifications

Crystals	NaI(Tl), CsI(Na), LaBr ₃ (Ce), CeBr ₃	
Classification	General Logging	Measurement While Drilling(MWD)
Random vibration	5 grms(X, Z), 50-500 Hz	30 grms(X, Z), 50-1000 Hz
Shock	100 g@11 ms	1000 g@0.5 ms
Crystal sizes(max)	Diameter 2"x8" Length	Diameter 1.5"x6" Length
Housing material	Titanium/Stainless Steel	
Sealed method	Welded	
Operating temperature	-30 to 175 degree C	
Operating time in high temperature(h, LO<=15%)	500	
Operating time in high temperature(h, LO<=10%)	200	
Magnetic property	NONE	

- Custom temperature, Shock and Vibration standard design specification available upon request.
- Aluminium and Stainless Steel housing with high temperature epoxy resin sealed window for general logging is available.