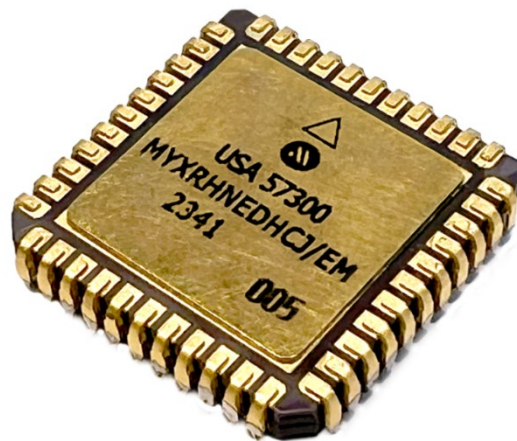


Nuclear Event Detector Engineering Model



For evaluation, early prototyping and radiation testing, Microcross offers its Engineering Model version of the NED: Its characteristics are indicated in Table 1.

Table 1. Engineering Model NED

Parameter	Value
Part Number	MYXRHNEHCJ/EM
Minimum Dose Rate Threshold	5×10^4 rads(Si)/sec
Radiation-to-Output Delay Time	15 ns @2x Overdrive at Minimum Dose Rate Threshold
Outputs	Pulse and Latched Level; Differential
Packaging	44-Pin J-Lead, Ceramic, Non-Hermetic
Screening	Screened in accordance with internal Microcross procedures. Material sourced by Microcross Engineering.
Temperature Range	Designed to Operate from -55°C to +125°C, but Tested at Only 25 °C.
100% Radiation Tested for Minimum Dose Rate Threshold	No
Prompt Dose Survival Level	5×10^{10} rads(Si)/sec (Tested)
Prompt Dose Rate Operate Through Capable	Current Units Limited to 2.5×10^9 rads(Si)/sec
Neutron Fluence (Device Survivability)	5×10^{13} n/cm ² (Not Tested)