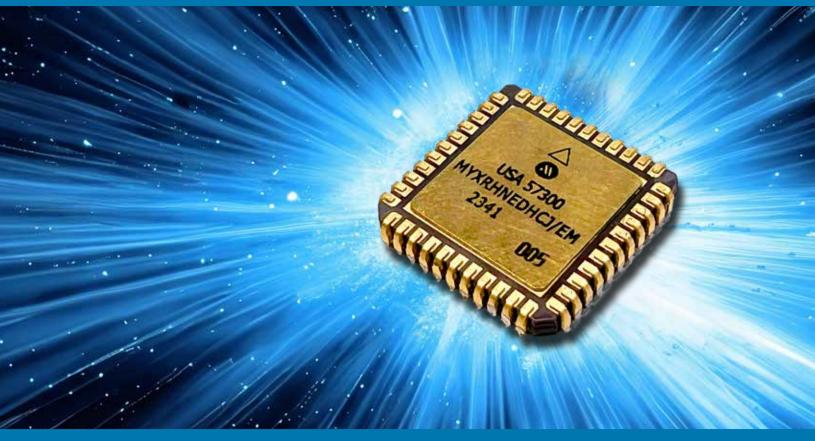


## **Nuclear Event Detector**

one source, one solution.

Product Brief



The Micross MYXRHNEDDCJ series Nuclear Event Detectors (NED) are screened to class H & K, and feature integrated differential drivers - providing SWaP savings, improved overall noise immunity, 300% greater radiation dose sensitivity, and 25% faster response times compared with legacy devices.



### **KEY FEATURES**

- · Gamma Dose Rate Sensitivity Threshold Range Adjustable from 5 x 10<sup>4</sup> to 2 x 10<sup>7</sup> rads (Si) / sec.
- · 44 Pin J-Lead SMT Package (.650in x .650in x .113in)
- · Integrated Differential Line Drivers and Receivers
  - · Eliminates the Need for Sheilding External Drivers and Recievers
- · Radiation Specifications
  - Total Dose (Device Survivability): 1 x 10<sup>6</sup> rads (Si)
  - Dose Rate (Operate Through): 1 x 1012 rads (Si) / sec.
  - Neutron Fluence (Operate Through): 5 x 1013 neutrons / cm2
- · Delay from Radiation Detected to Output Signal Asserted: 15ns
- · 3.3V Power Requirement
- · -55 to +125°C Temperature Range
- · Differential Line Drivers and Receivers All Operate Through Prompt Dose Without Extra Shielding

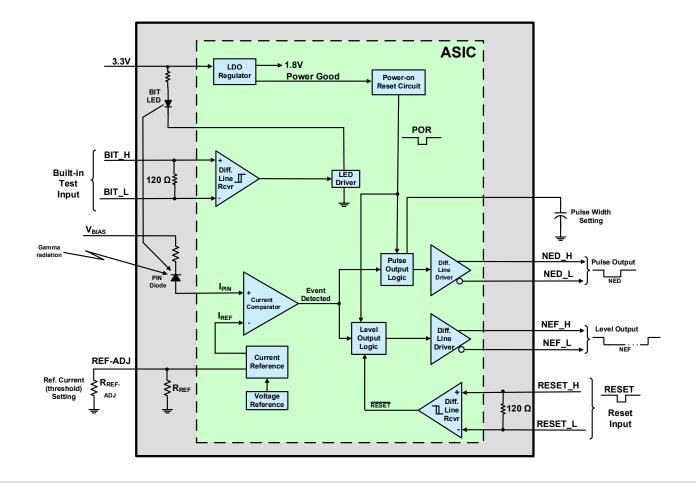
#### BENEFITS

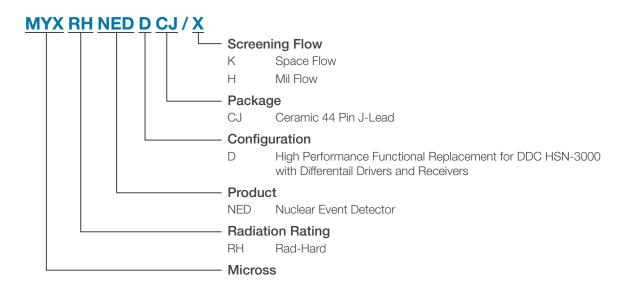
- 4X Lower Minimum Dose Rate Sensitivity
- · 25% Faster Response Time Enabling a More Rapid Shutdown of Critical Electronics
- Improved Noise Immunity
- · Use Output Signal to Shut Down Power Supplies, Take Processors Offline and Block Memory Write Operations
- · Manufactured on US soil in the Jazz Semiconductor Trusted Foundry
- Improvements in Obsolescence Mitigation with In-House Sourced PIN **Diode and ASIC**

## **APPLICATIONS**

- · Aircrafts and Drones
- · Missiles and Bombs
- · Satellites
- · Military Ground Vehicles
- Nuclear Material Storage

# **NED with Integrated Line Drivers & Recievers**







#### **Need Information?**

Quote Request:	micross.com/quotes
General Requests:	micross.com/info
Technical Support:	micross.com/tech-support