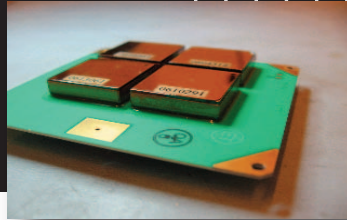


Radiation Detector Design and Packaging



CZT Detector Module for a Directional Gamma Radiation Spectrometer



CZT Modules for a Large Area Gamma Radiation Detector Array

Capabilities:

- Custom Metallized Crystal Patterning
- CZT and Cadmium Telluride Crystal Processing
 - cut, polish, shape
 - metallization
- Low Temperature Solder Attach
- Custom Package Design
- Discrete Sensor and Array Fabrication
- Applications Include:
 - Homeland Security
 - Medical Imaging
 - Astrophysics
 - Portable Sensing
 - Remote Wireless Monitoring

Addressing the growing need for gamma-ray detection, in fields as diverse as homeland security, medical imaging, and astrophysics, Quik-Pak is now offering custom design and packaging of radiation sensors for incorporation into your new products.

The CZT and Cadmium Telluride crystals available through various vendors are enhanced with Quik-Pak's low temperature solderable metallization and a proprietary side coating which limits further oxidation, thereby reducing edge pixel leakage current.

Quik-Pak's experience in electronics packaging and Flip Chip assembly enables the creation of a wide variety of custom sensor applications. A Quik-Pak metallized CZT crystal can be reliably soldered onto high-density printed circuit boards and ASICs without degradation of the crystal's performance. In addition, this low-profile package can be designed into planar arrays of unlimited sizes.

Quik-Pak's CZT detector technology can be easily adapted to any number of applications, including:

- Mammography, PET and SPECT imaging
- Astrophysical X-ray detection
- Portable sensing units
- Remote wireless monitoring
- High-resolution nuclear spectrometers for security

Quik-Pak will design and package the radiation sensor that meets your technical and schedule requirements.

Quik-Pak

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