

1. Inspection of Hybrids and Modules.

1.1 Hybrid Reception.

Correct packaging.

1.2 Optical Inspection.

Lynx Dynoscope Zoom with X80 maximum magnification combined with Nikon Coolpix 995 Digital Camera.

In the following "Inspect" refers to observations at X60 to X80 magnification.

"Check" refers to observations at X10 to X20 magnification.

1.2.1 Hybrid.

1. Check component placement.
2. Check ASIC attach adhesive footprint.
3. Inspect front edge of hybrid.
4. Check ASIC peripheral wirebonds and any hybrid link bonds.
5. Check ASIC input wirebonds to fan-in.

1.2.2 Completed Module.

This inspection is done after completion of all assembly/test and after any additional work performed before dispatch from RAL.

1. Inspect high voltage wirebonds and glue vias.
2. Check ASIC wirebonds and any hybrid link bonds.
3. Check ASIC to fan-in wirebonds.
4. Inspect condition of fan-in.
5. Inspect fan-in to detector wirebonds.
6. Inspect detector to detector wirebonds.
7. Inspect outer guard to guard region around periphery of detectors where possible.
8. Check surface of detectors where possible.
9. Repeat from 2. for other side of the Module.