

10030 Foothills Blvd. Roseville, CA 95747 (800) 550-6005 www.prideindustries.com

X-Ray Inspection Report



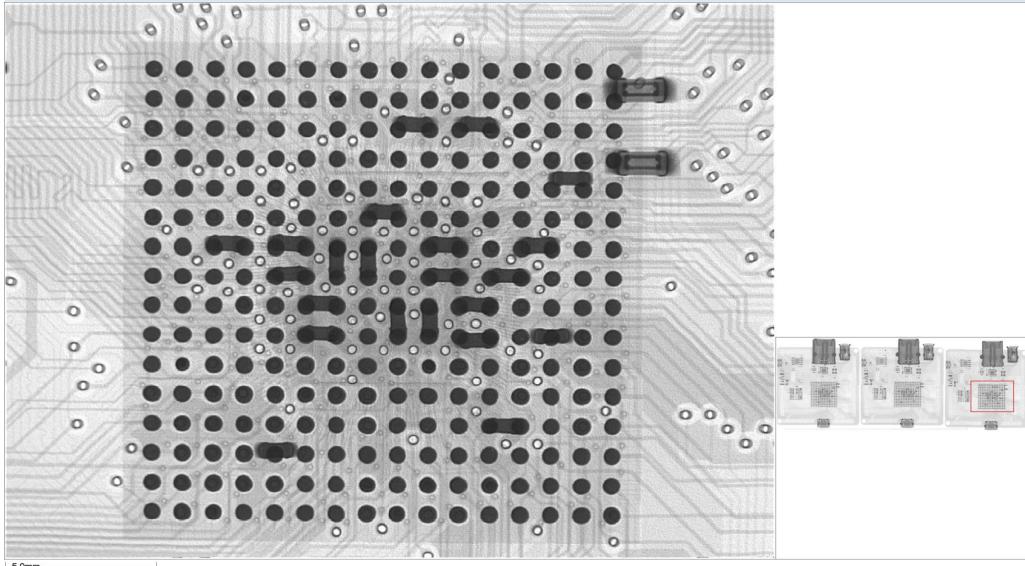
The power of purpose

Customer:	I/O SAFE
Work Order:	
Assembly No:	
Serial No:	
Scope of work:	Inspecting BGA Balls
Engineer:	Victor Dallago
Date:	08/15/2019
Observation/Conclusions	Varying size and shape of BGA balls caused by design of BGA pad layout

I/O SAFE

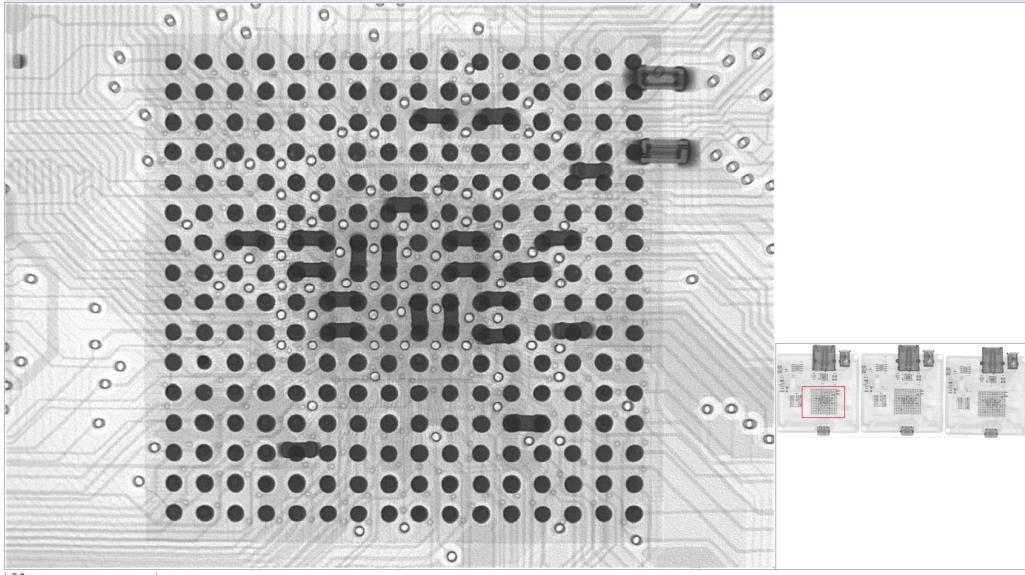


Slide 1 Board 3



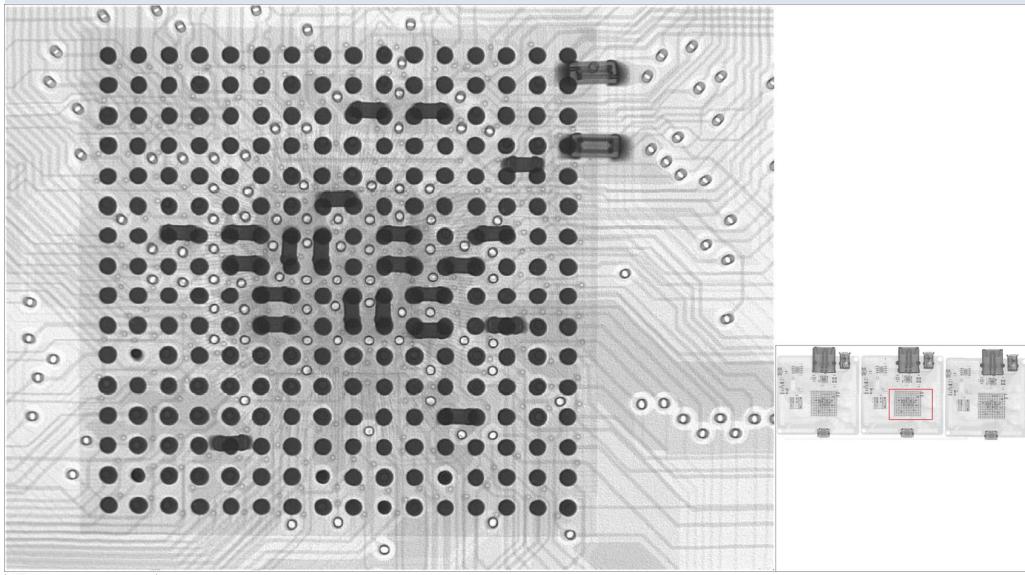
5.0mm

Slide 2 Board 1



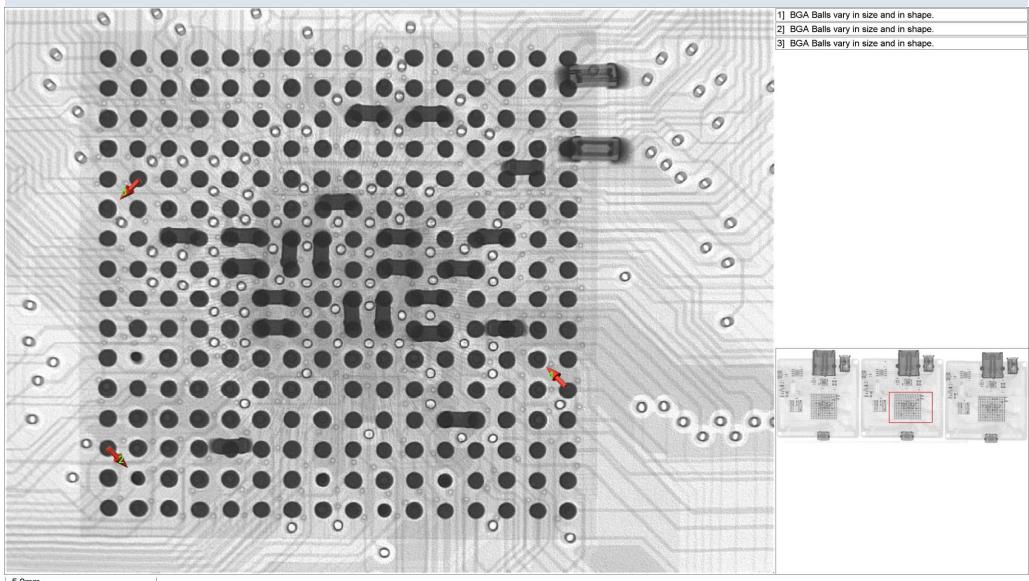
5.0mm -

Slide 3 Board 2



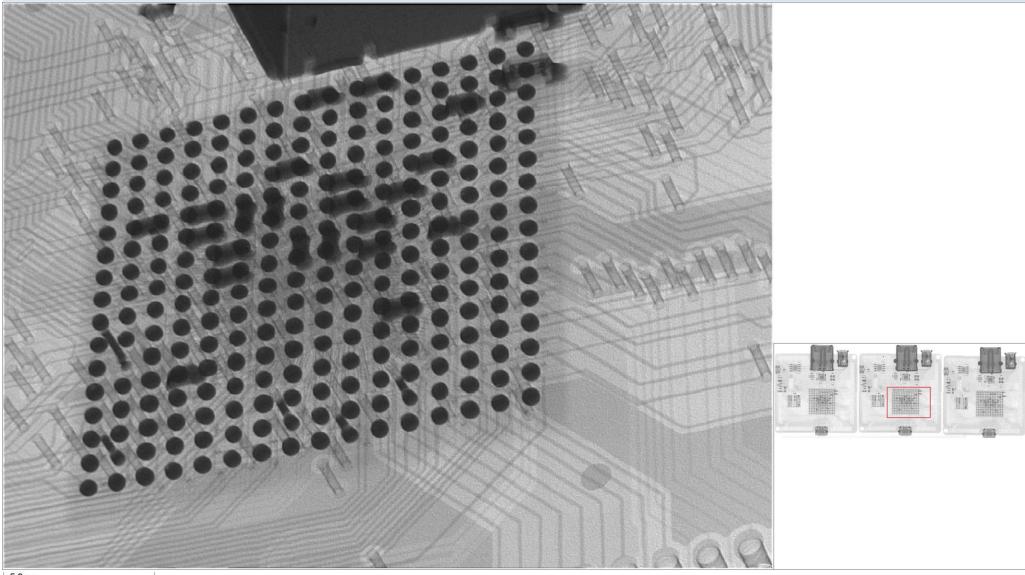
5.0mm

Slide 4 Board 2



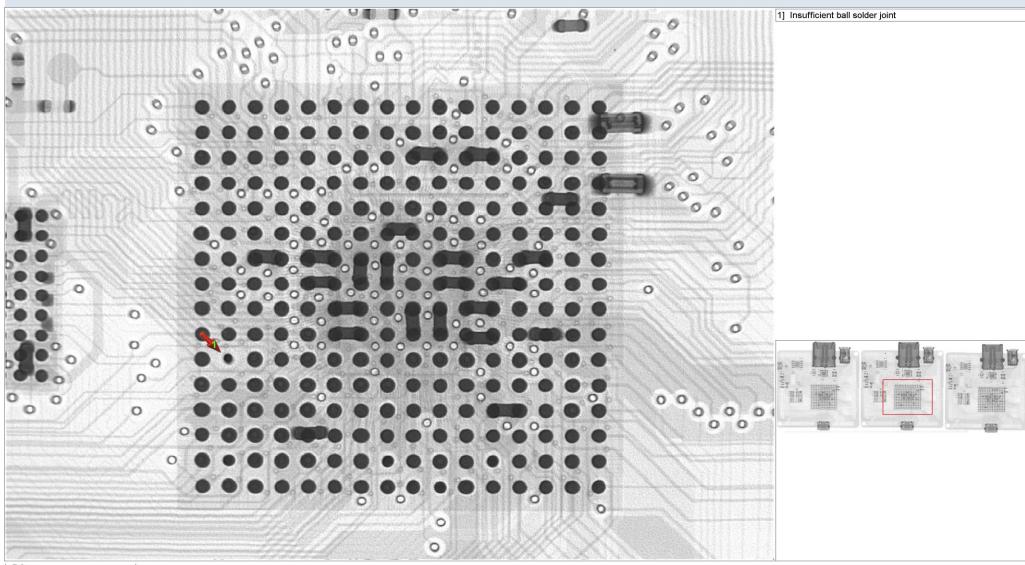
5.0mm

Slide 5 Board 2



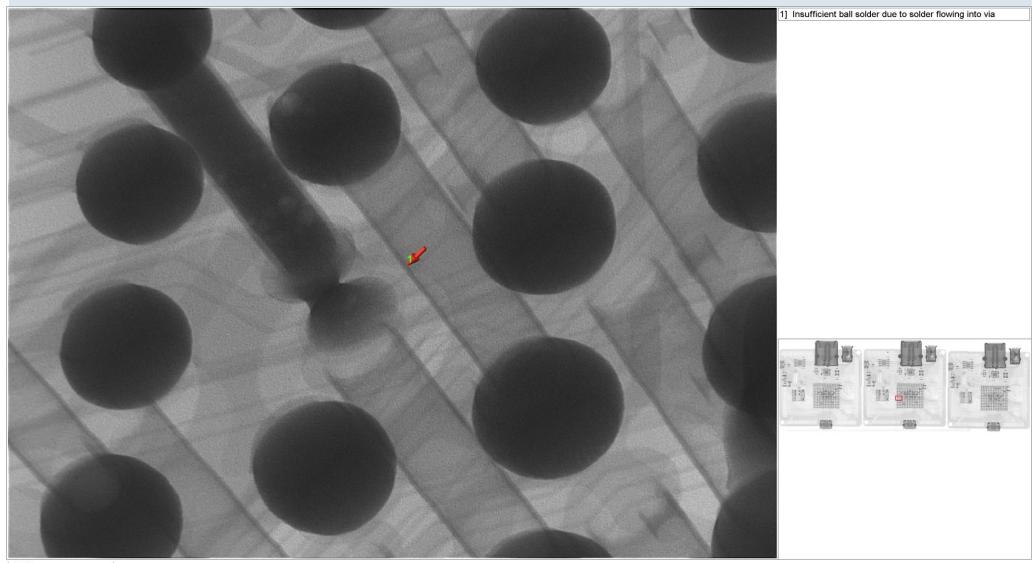
- 5.0mm

Slide 6 Board 2



5.0mm

Slide 7 Board 2



⊢ 0.50mm

3D X-Ray Solutions



The Nordson DAGE XD7600NT Ruby X-ray is the ultimate inspection system. The inspection system uses the latest technology image intensifier and proven feature recognition capability to provide the ultimate choice for the highest quality in X-ray imaging on the market today. With the revolutionary X-PlaneTM option, the superior image quality can be extended into separating individual layers. X-PlaneTM uses a proprietary, patent applied for tomosynthesis or CT technique to create 2-D X-ray slices in any plane of a printed circuit board assembly without the need to cut or destroy the board.

Specifications:

- Proveable < 0.5 µm Feature Recognition
- 160 kV Tube with Up to 10 W Tube Power
- 1,800 X geometric magnification
- 23,400 X total magnification including digital zoom
- Maximum board size: 29" x 22.8" (736 x 580 mm)
- Maximum inspection area: 20" x 17.5" (508 x 444 mm)
- 70° oblique angle views for 360° around a point of interest
- AciS Active X-ray Image Stabilisation anti-vibration control
- ciDAT3 digital image intensifier detector with 1600 x 1200 pixels (2.0 Mpixels):
- X-PlaneTM

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