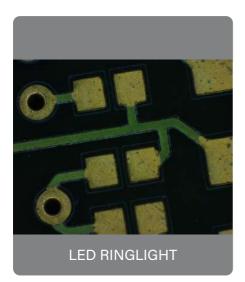
# **APPLICATION NOTE**









## **INSPECTION OF MICROELECTRONICS TRACKS AND CONTACTS ON A PCB**

### HIGHLIGHTING THE **SURFACE QUALITY** OF **MICROELECTRONICS TRACKS** AND **CONTACTS ON A PCB**



#### PROBLEMATIC

Using standard LED illuminations to inspect PCB does not allow for optimal inspection of the surface quality and more specifically of electric tracks and contacts.

#### **OUR SOLUTION**

Using L.E.S.S. light, the user benefits from uniform white light (5400°) illumination.

The light of the L.E.S.S. darkfield illumination hit the sample from the side with optimum intensity and no heat dissipation offering high contrast image.

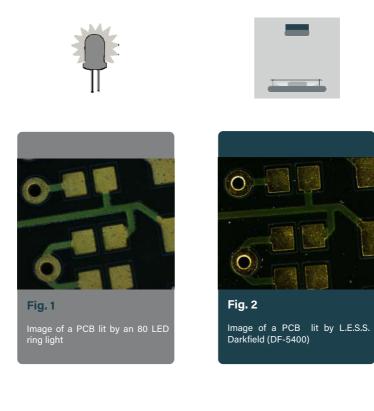


#### APPLICATION

under a stereomicroscope under a stereomicroscope immediately with an entry-level LED with a L.E.S.S. Darkfield uniformity of the illumination ring at a working distance ringlight (DF-5400), adjusted results in sharp, well-defined of 100 mm. Scratches, dust to a working distance of about images leading to a faster and and other surface defects 10 mm above the PCB. The more accurate and reliable are not observable as the uniformity and directionality inspection of the sample. different areas are not evenly on the light striking the illuminated. The quality of the electronic contrast over the surface to contacts are undetectable and inspect. difficult to inspect.

The image in Fig. 1 was taken The image in Fig. 2 was taken Coating surface entire PCB provides excellent

defects are visible. The



RISK CLASS 0 EN 62471 : 2006

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RoHS