

COPYRIGHT NOTICE

The presentation(s)/poster(s) in this publication comprise the Proceedings of the 2018 TestConX China workshop. The content reflects the opinion of the authors and their respective companies. They are reproduced here as they were presented at the 2018 TestConX China workshop. This version of the presentation or poster may differ from the version that was distributed in hardcopy & softcopy form at the 2018 TestConX China workshop. The inclusion of the presentations/posters in this publication does not constitute an endorsement by TestConX or the workshop's sponsors.

There is NO copyright protection claimed on the presentation/poster content by TestConX. However, each presentation/poster is the work of the authors and their respective companies: as such, it is strongly encouraged that any use reflect proper acknowledgement to the appropriate source. Any questions regarding the use of any materials presented should be directed to the author(s) or their companies.

The TestConX China logo and TestConX logo are trademarks of TestConX. All rights reserved.

www.TestConX.org

Session 3 Presentation 2

TestConX China 2018

High Frequency and High Current



TestConX China Workshop

TestConX.org

October 23 & 25, 2018

High Frequency and High Current



High Frequency and High Current



Wiping contact is widely used for lead less peripheral IC packages such as QFN

Methodology:

- Force generate Y axis displacement

Test**ConX**中国

- Side force at X axis to cause the displacement (X1, X2), wiping the devices and load board pads

China



High Frequency and High Current







High Frequency and High Current



Session 3 Presentation 2

TestConX China 2018

High Frequency and High Current



High Frequency and High Current



TestConX China Workshop

TestConX.org

October 23 & 25, 2018











High Frequency and High Current



Stable performance despite more aggressive wear and hardness



Contact after reduced travel

China



Contact after full travel

One Type Wiping Contact Introduction

2018

TestConX China Workshop

Test**ConX**中国



High Frequency and High Current



TestConX China Workshop

High Frequency and High Current



High Frequency and High Current

Summary

- Consistent contact mark
- Probe-like compression capabilities & larger force
- Insertions: > 500,000 cycles
- Operating temperature: 40C to 155C
- Resistance < 20 m Ω per contact
- Current carrying capacity: < 80 degree C temp rise at 5 Amps
- Bandwidth of 10GHz at >-1 dB insertion loss



One Type Wiping Contact Introduction



Session 3 Presentation 2

TestConX China 2018

High Frequency and High Current



TestConX China Workshop

TestConX.org

October 23 & 25, 2018

High Frequency and High Current

Acknowledgements

I would like to thank my directly manager Jinrong Chen and VP Frank Zhou for their technical supports

And I also thank my TestConX China Coordinator Yuanjun Shi for his review and feedback



One Type Wiping Contact Introduction

2018

TestConX China Workshop

TestConX.org

October 23 & 25, 2018