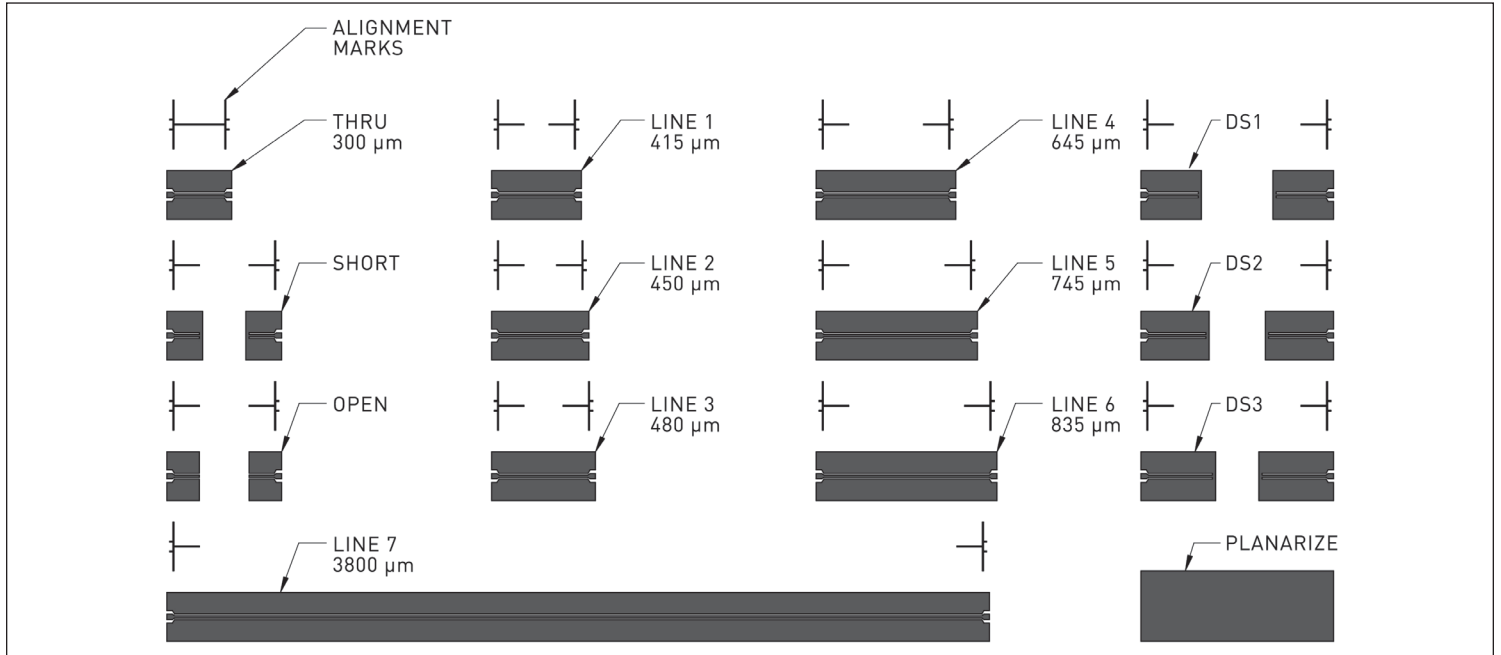




## Key to Map

West Probe Fixed Index Step: 1500  $\mu\text{m}$  x 650  $\mu\text{m}$ , Alignment Mark Offset: 325  $\mu\text{m}$  Step North



**Note:** Line lengths are specified as conductor edge-to-edge dimension.

### SPECIFICATIONS

**Substrate Material:** High-resistivity Silicon, **Substrate Thickness:** 275  $\mu\text{m}$ , **Dielectric Constant:** 11.8, **Nominal Line  $Z_0$ :** 50 Ohm

### OVERTRAVEL AND ALIGNMENT

Prior to contacting the calibration standards, alignment and overtravel should be set using the alignment marks. On initial contact, the leading edge of the probe contacts should be aligned with the outmost edge "A" of the alignment mark, shown in Figure 1. To reach final contact, overtravel should be increased until the leading edge of the probe contacts is aligned with the innermost edge "B" of the alignment mark, shown in Figure 2.

**Note:** Calibration substrate must be mounted on an absorber material (such as ISS Holder P/N 116-344).

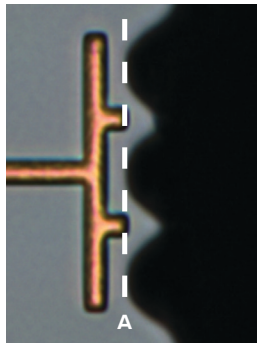


Figure 1: Initial contact

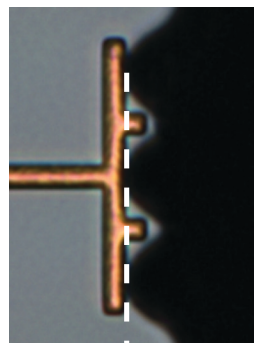


Figure 2: Final contact

### RECOMMENDED LINE CONFIGURATIONS

Band	WR-3.4 (220 - 330 GHz)	WR-4.3 (170 - 260 GHz)	WR-5.1 (140 - 220 GHz)
Lines	Thru Line 1 Line 4	Thru Line 2 Line 5	Thru Line 3 Line 6

© Copyright 2023 FormFactor, Inc. All rights reserved. FormFactor and the FormFactor logo are trademarks of FormFactor, Inc. All other trademarks are the property of their respective owners. All information is subject to change without notice.

Document PN: 172-887-DS Rev. 00

**Corporate Headquarters**  
7005 Southfront Road  
Livermore, CA 94551  
Phone: 925-290-4000  
www.formfactor.com