

Cascade Impedance Standard Substrate Map

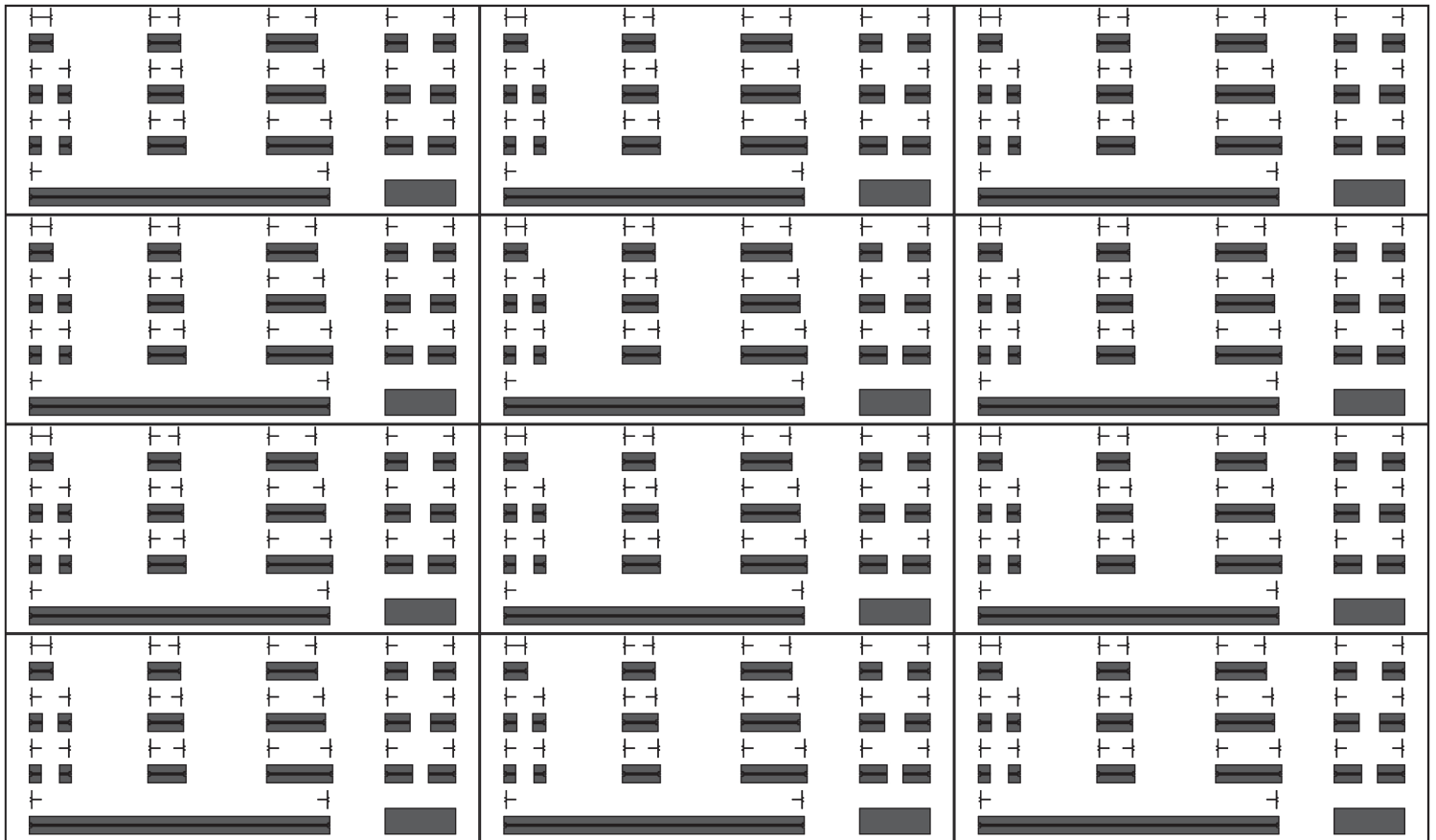
000111100010

➤ Multiline TRL Calibration Substrate

Pitch: 75 - 100 μm , **Frequency:** WR-3.4 – WR-5.1, **Configuration:** Ground-Signal-Ground

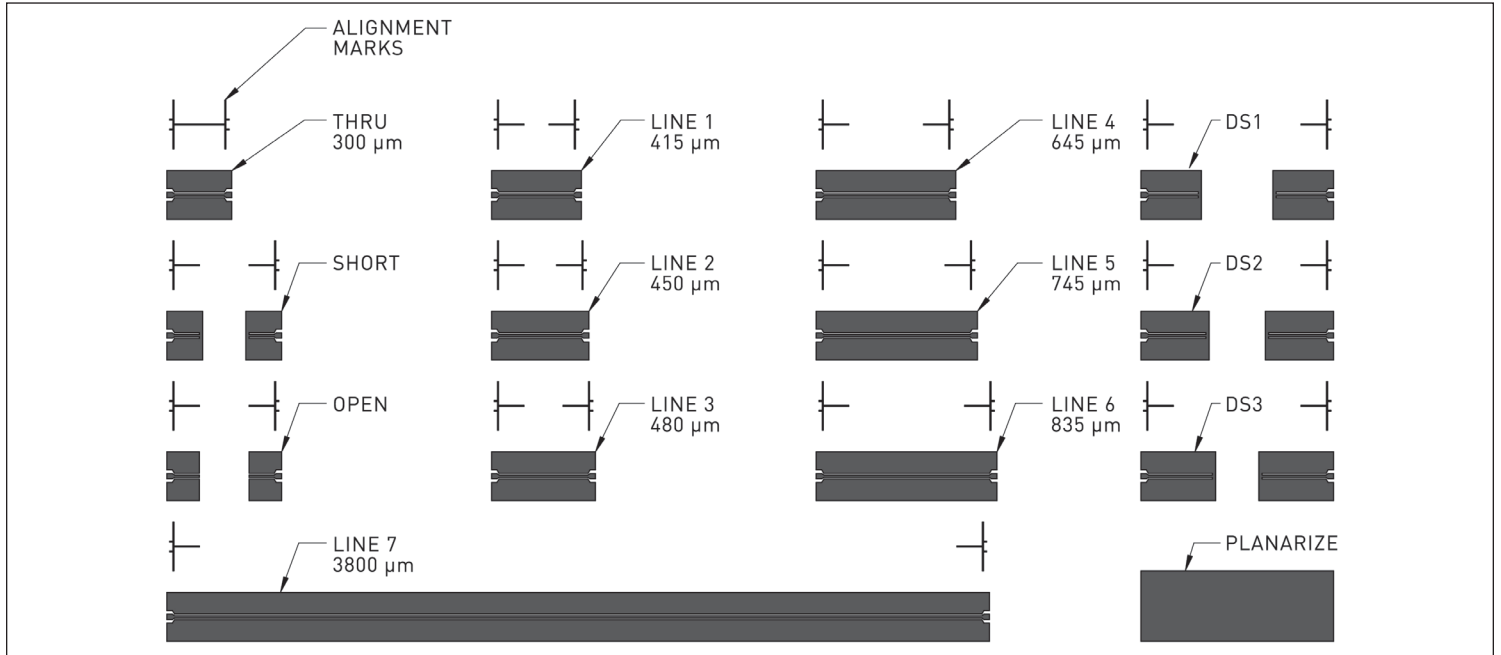
P/N: 172-887

S/N:



Calibration Sites: 12 **Site Spacing:** 6000 μm x 2650 μm

West Probe Fixed Index Step: 1500 μm x 650 μm , Alignment Mark Offset: 325 μm Step North



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

SPECIFICATIONS

Substrate Material: High-resistivity Silicon, **Substrate Thickness:** 275 μm , **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).

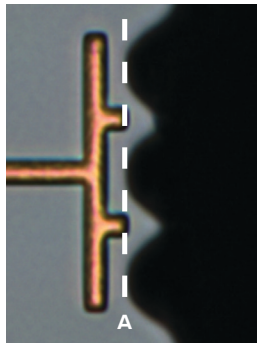


Figure 1: Initial contact

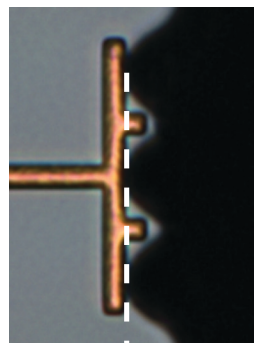


Figure 2: Final contact

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 2018 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.

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