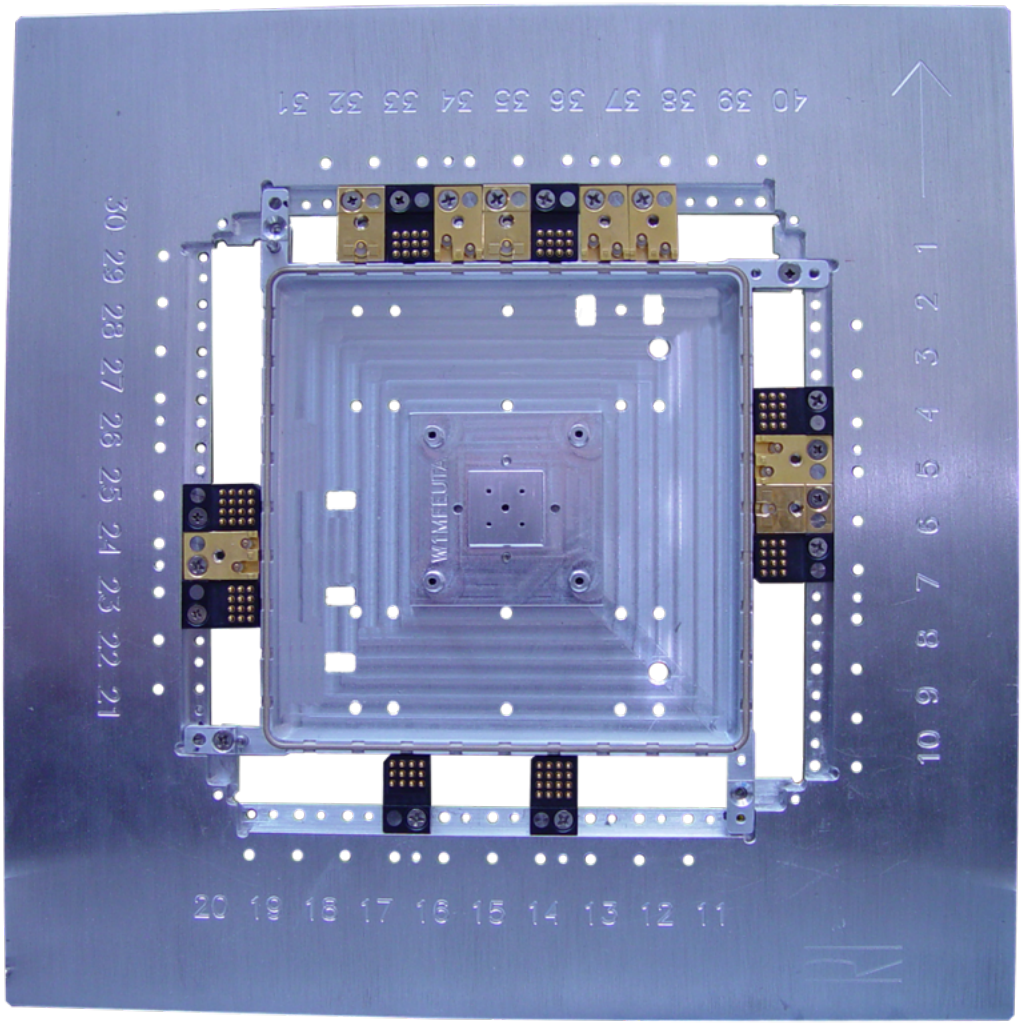
Roos Instruments

Elastomer Trimming Application Note

Trimming Elastomer For Pedestal Supports



Tools Needed:

Exacto Knife

Dependencies:

Pedestal Support Plates, Active RF Insert Locations

For more information:

roos.com/support

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Trimming Conductive Elastomer

A contiguous piece of conductive elastomer is pre-installed into Pedestal Support Plates. The elastomer needs to be trimmed at sites along the pedestal support that correspond with locations of RF inserts and their DIB traces that will be used in an application, including masked RF traces. NOTE: It is not recommended to trim the elastomer in regions that do not correspond with an RF launch. This will degrade the shielding capability and/or result in signal leakage. DC traces should be masked. If no mask is present, a layer of Kapton over the traces can be used as a substitute.

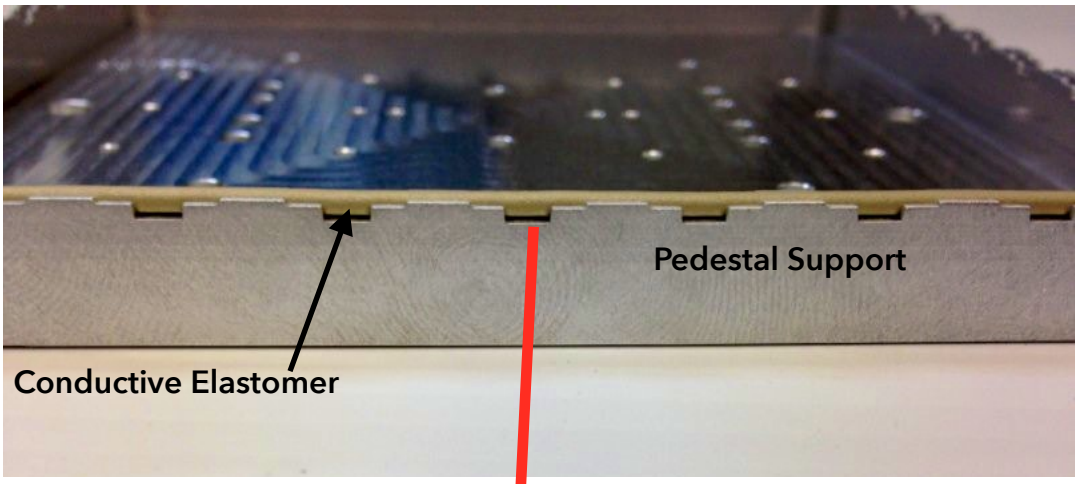

Figure 1:
Before trimming.

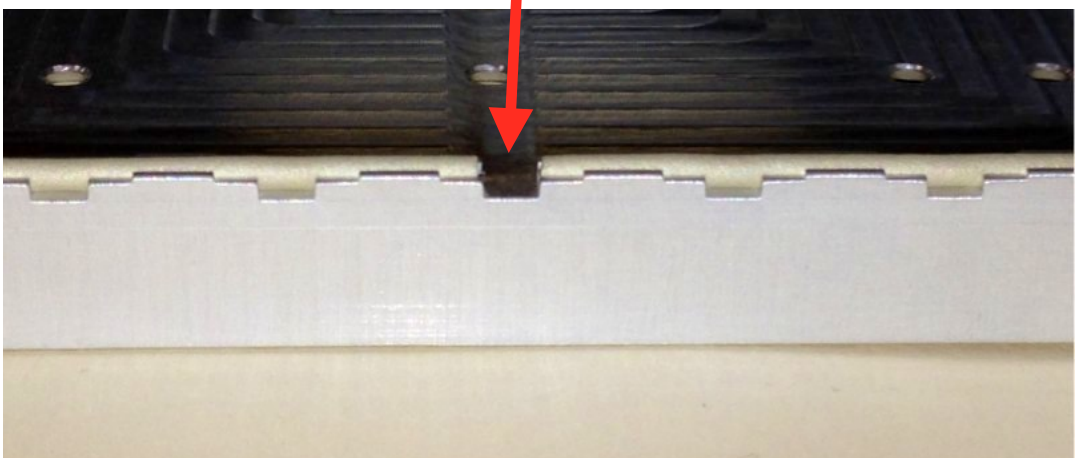

Figure 2:
After trimming. Only trim the elastomer to the edge of the slots. Excess trimming will result in signal leakage. Too little trimming and the elastomer may short the trace.

Trim the elastomer to the edges of the slot as shown in figure 2.

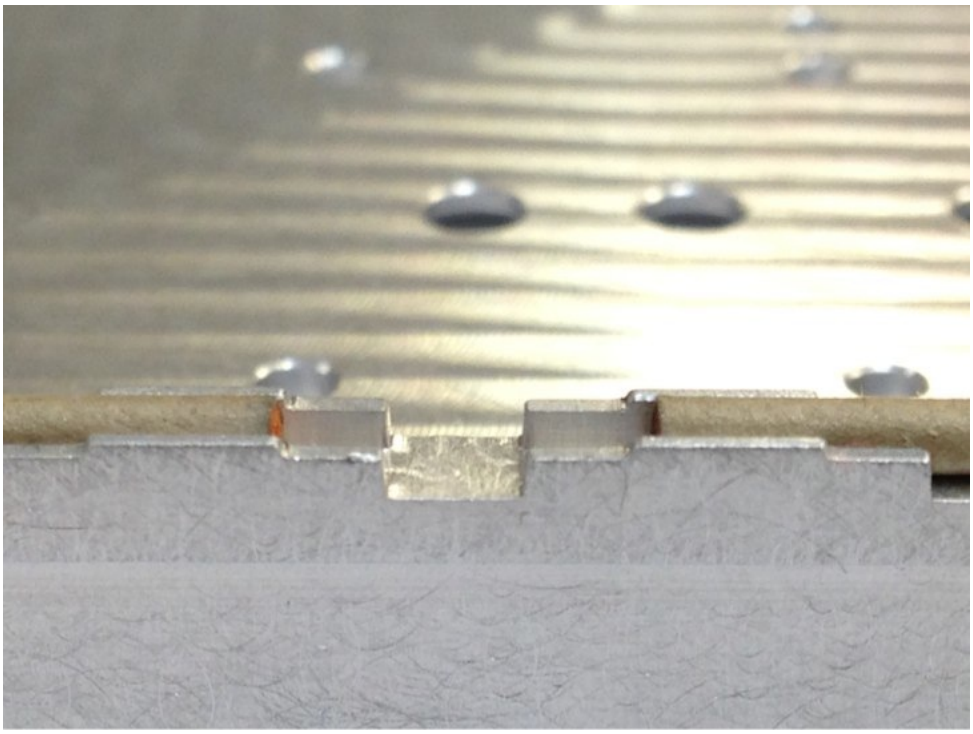

Figure 3:
For dual mcx launches, the trimmed section of the elastomer needs to be extended to handle the dual paths. The elastomer should be trimmed as shown to the left.

REFERENCE

For more information:
roos.com/support