

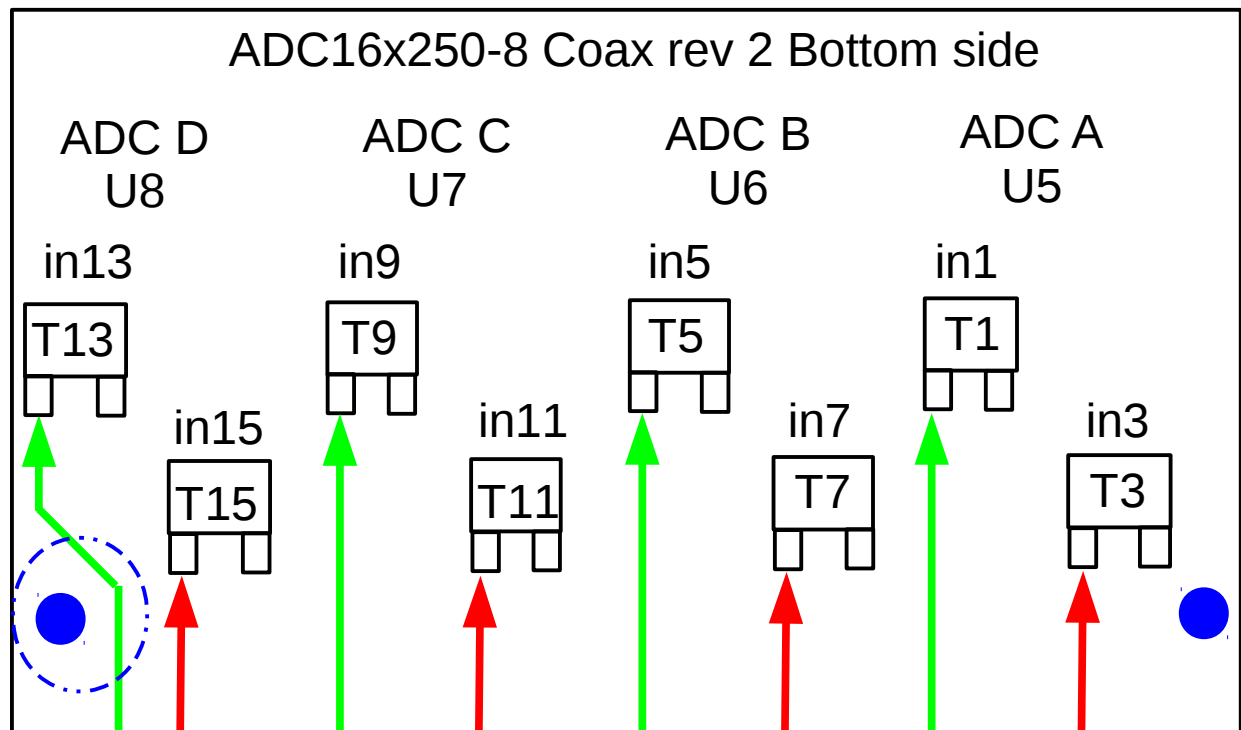
Zdok+ slot 1

1U faceplate view from the etched/labeled face

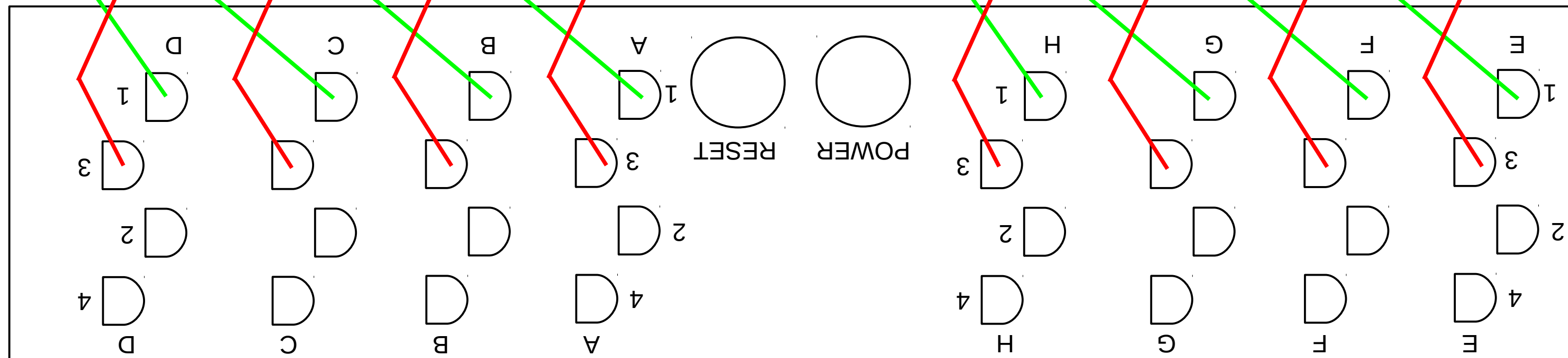
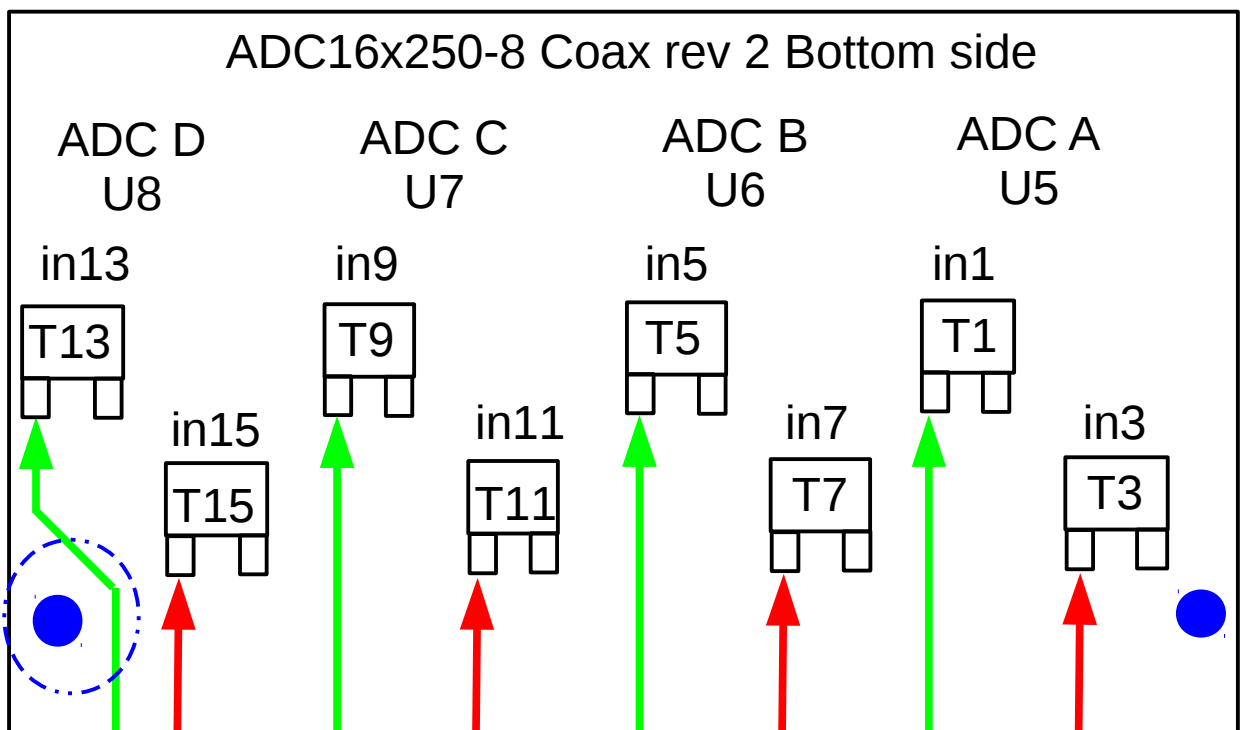
Zdok+ slot 0

Not to scale

WARNING. The D1 SMB cable to T13  
must curve around the M3 screw!  
It will about the D3 SMB cable to T15.



WARNING. The H1 SMB cable to T13  
must curve around the M3 screw!  
It will about the H3 SMB cable to T15.



Zdok+ slot 0

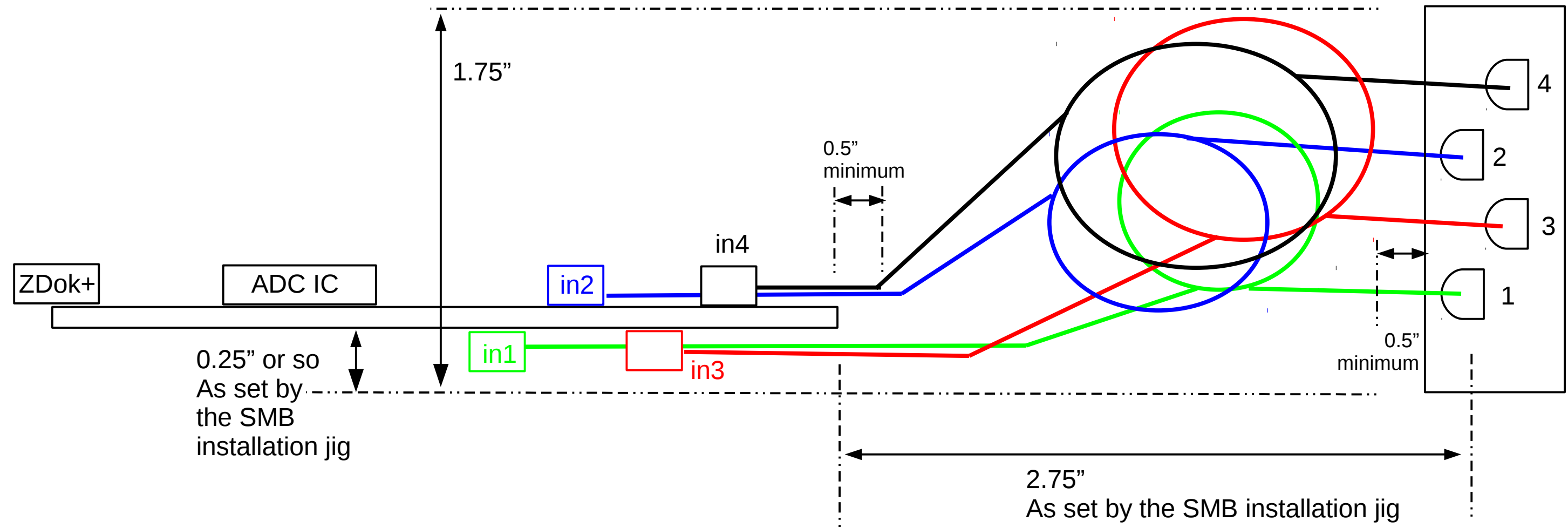
1U faceplate view from the etched/labeled face

Zdok+ slot 1

Not to scale

Side View of the face plate and ADC16x250-8 coax rev 2 boards showing the coils in the SMB input coax cables.

The coils must remain within the available 1U (1.75") vertical space. And the roughly 2.75" horizontal space as set by the SMB alignment jig (documented elsewhere). The coils will be ovals of smaller diameter 0.75" at minimum to 1.5" or so at maximum.



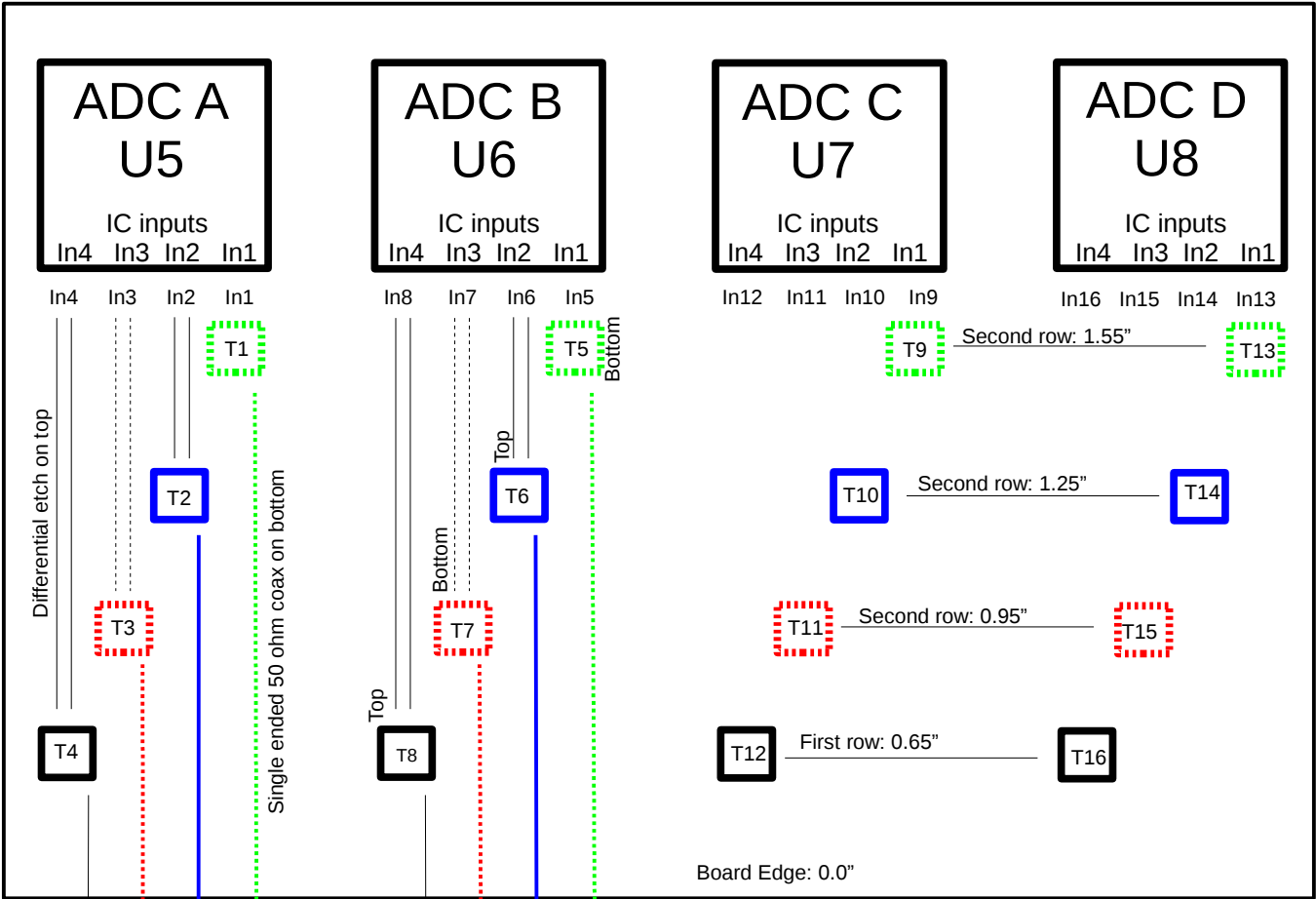
In the sketch above all the coax cables were cut to the same length of approximately 9". This combined with the different distances from the front panel to the PCB mounted baluns causes the black and red coils for inputs numbered 4 and 3 to be larger than the blue and green coils for inputs 2 and 1.

However, it is acceptable for each cable to be a custom length if that in any way eases their assembly. In which case all "service loops" could be the same size.

In any case, the total path lengths from antenna to ADC will need to be calibrate using external (astronomical) observations.

Not to scale

ADC16x250-8 Coax rev 2 Top side



0 .165 .33 .495 (gap of .28) .775 .94 1.11 1.27 approximate X spacing in inches for coax rev 2 board

0 0.11 0.22 0.33 (gap of .34) 0.67 0.78 0.89 1.00 approximate X spacing in inches for coax rev 1 board (all in 1 row)

Balun spacing for Coax rev 2 relative to Coax rev 1:

Closest opposite side baluns on the same chip: 0.34" versus 0.11"

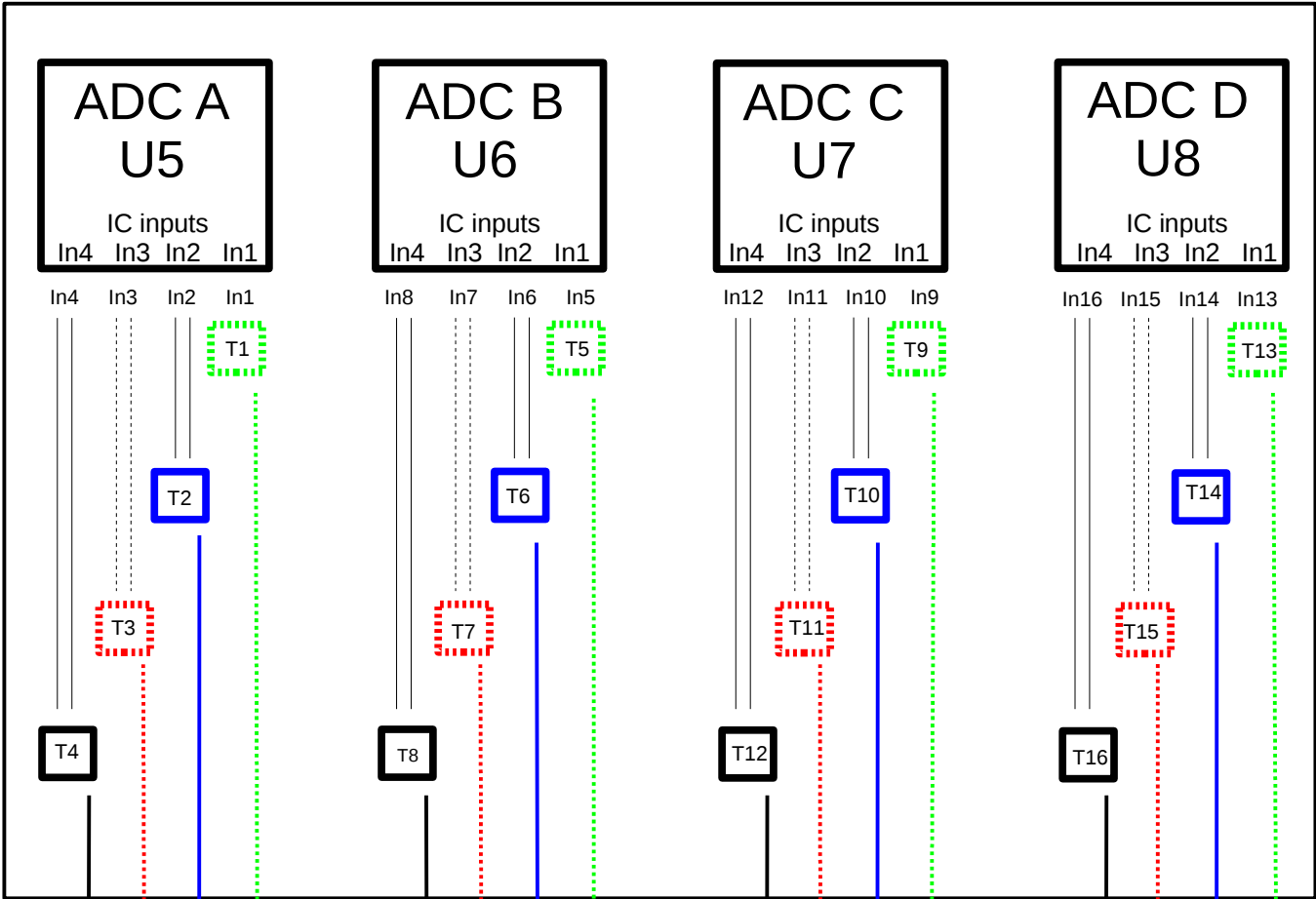
Closest same side baluns on the same chip: 0.446" versus 0.33"

Closest opposite side baluns for 2 chips: 0.67" versus 0.34"

Closest same side baluns for 2 chips: 0.775" versus 0.45"

Not to scale

ADC16x250-8 Coax rev 2 Top side



No particular crossover scheme required. Cables must connect ADC16 input N to faceplate location N.

