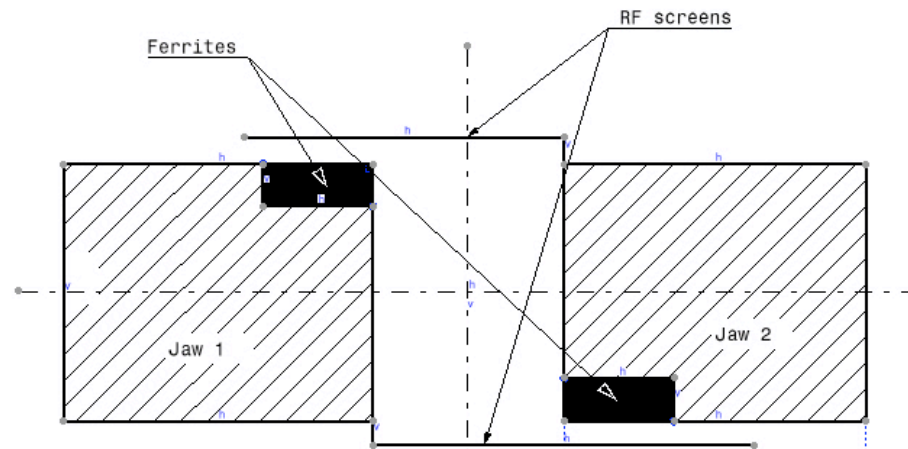


DISCUSSION ON THE LHC DS COLLIMATORS (22/09/2010)

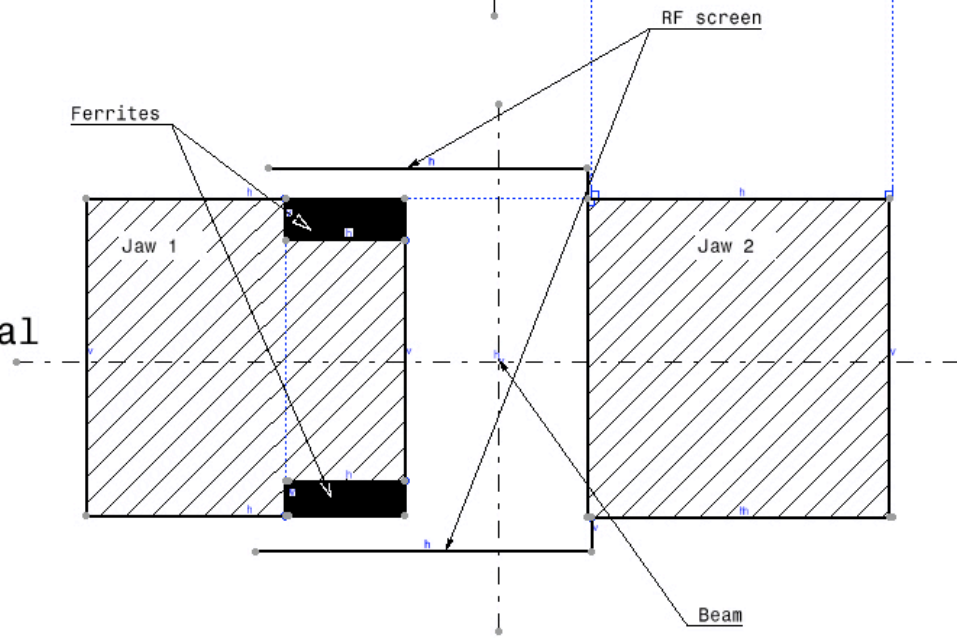
Elias Métral and Marc Timmins

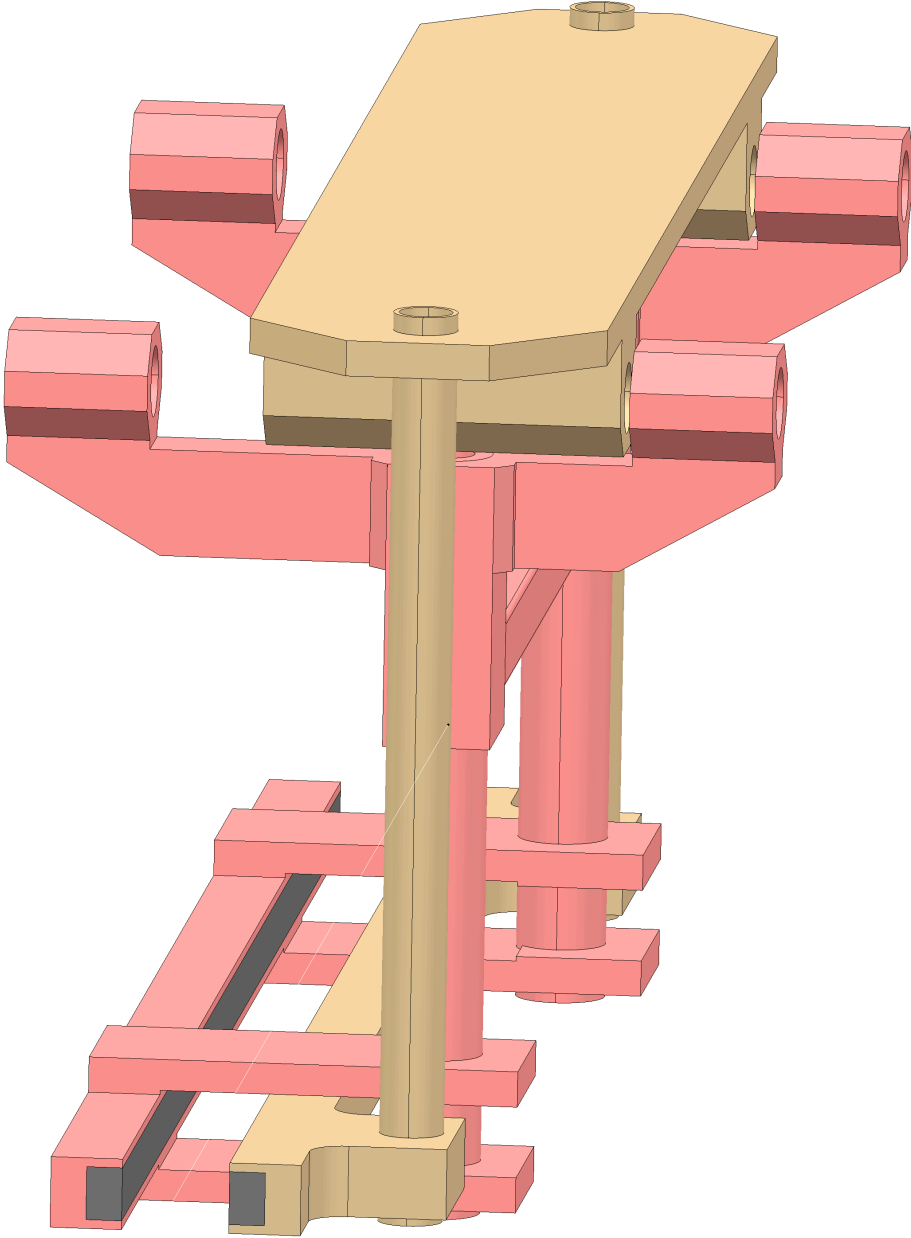
- ◆ **Question: The design is based on the one for the Phase 2 collimators => Ferrite on top and beam screen on bottom on one jaw, and opposite for the second jaw (see next slide). Can we have the 2 ferrite plates on one jaw and the 2 beam screens on the other (this issue arises due to the cryo line which complicates the mechanical design)?**
- ◆ **Answer: Yes.**
- ◆ **Once a new design is ready, we would like the drawings to perform (quantitative) electromagnetic simulations**

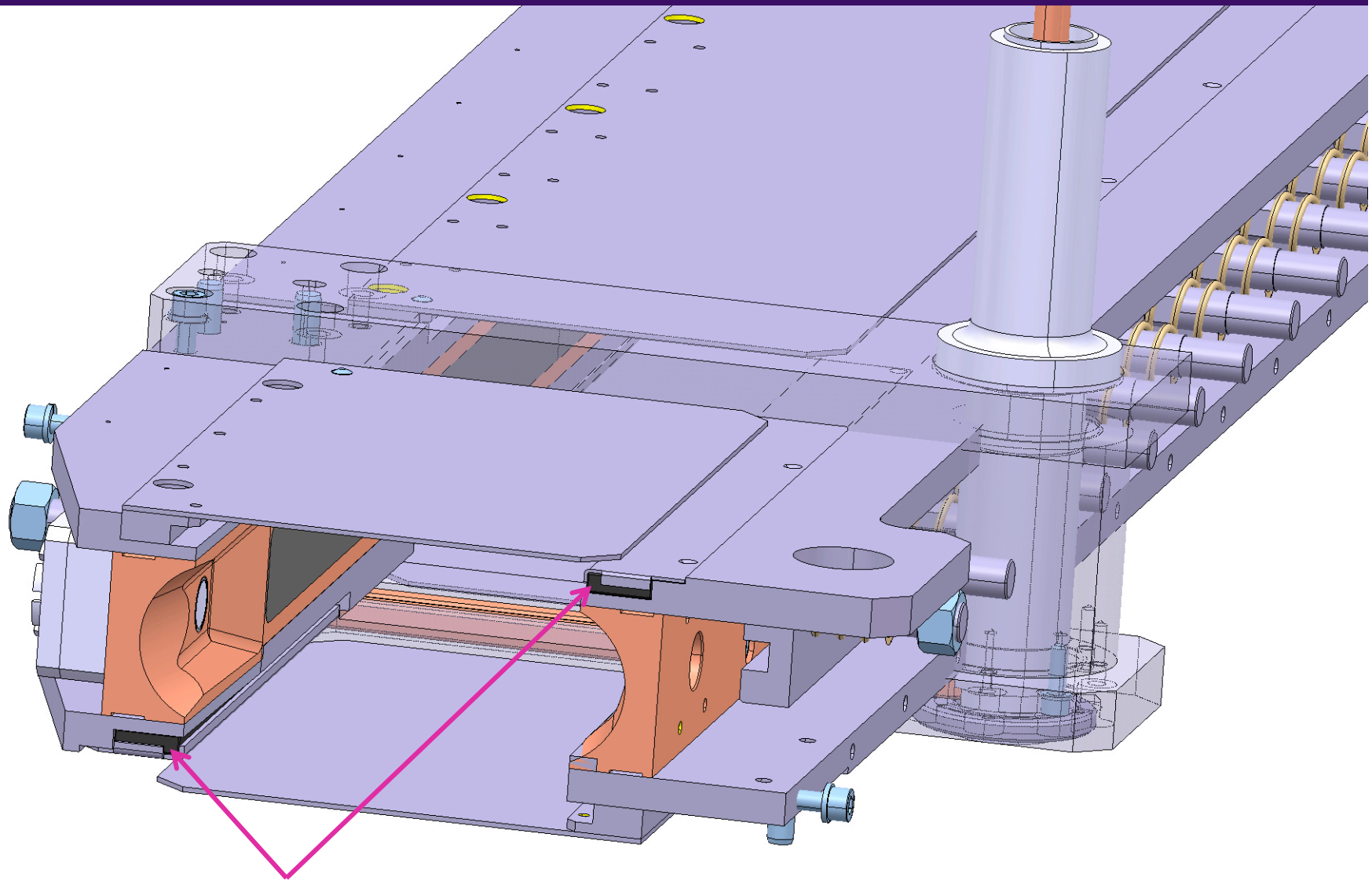
Phase 2 collimator



DS collimators proposal

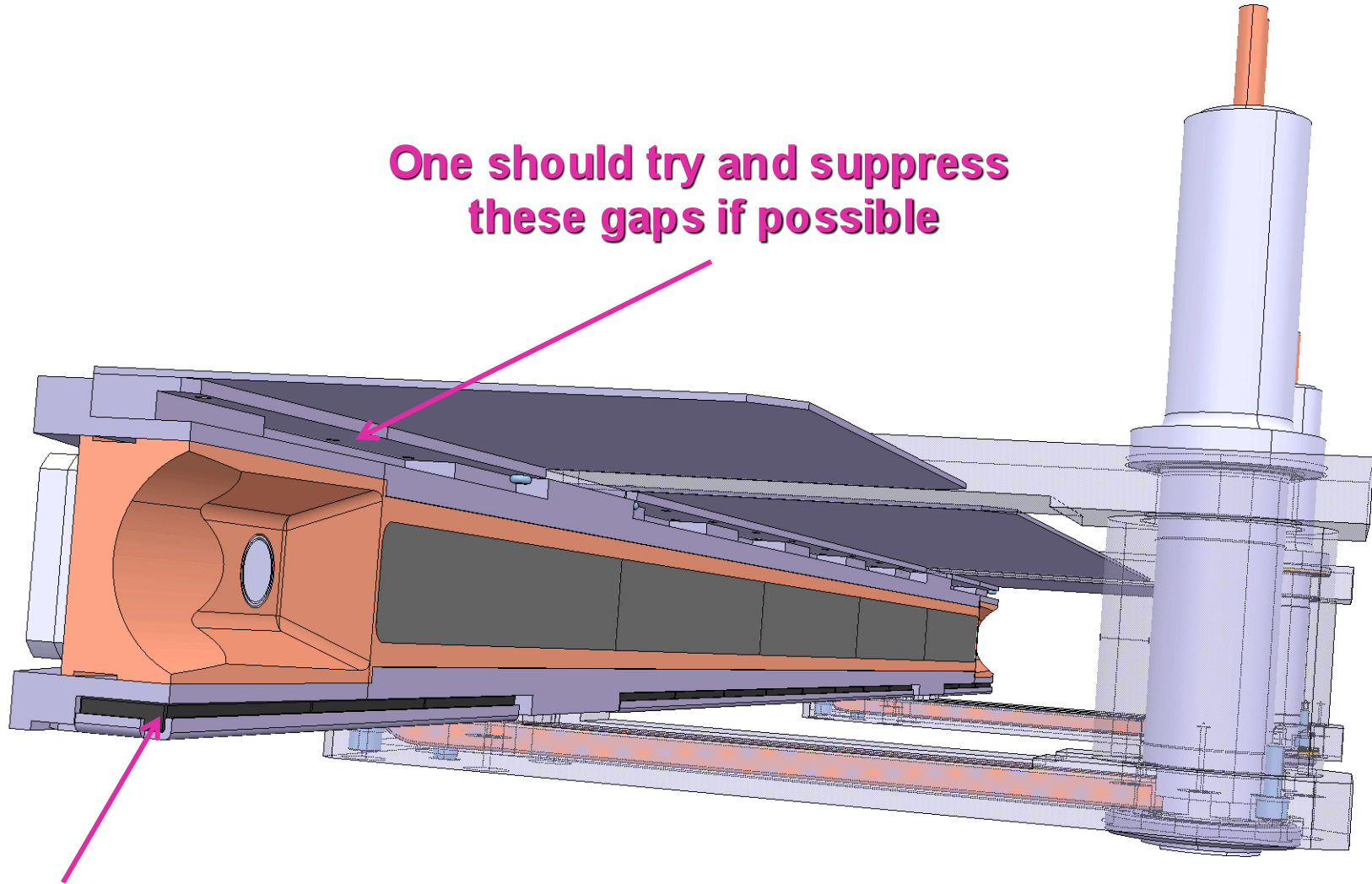






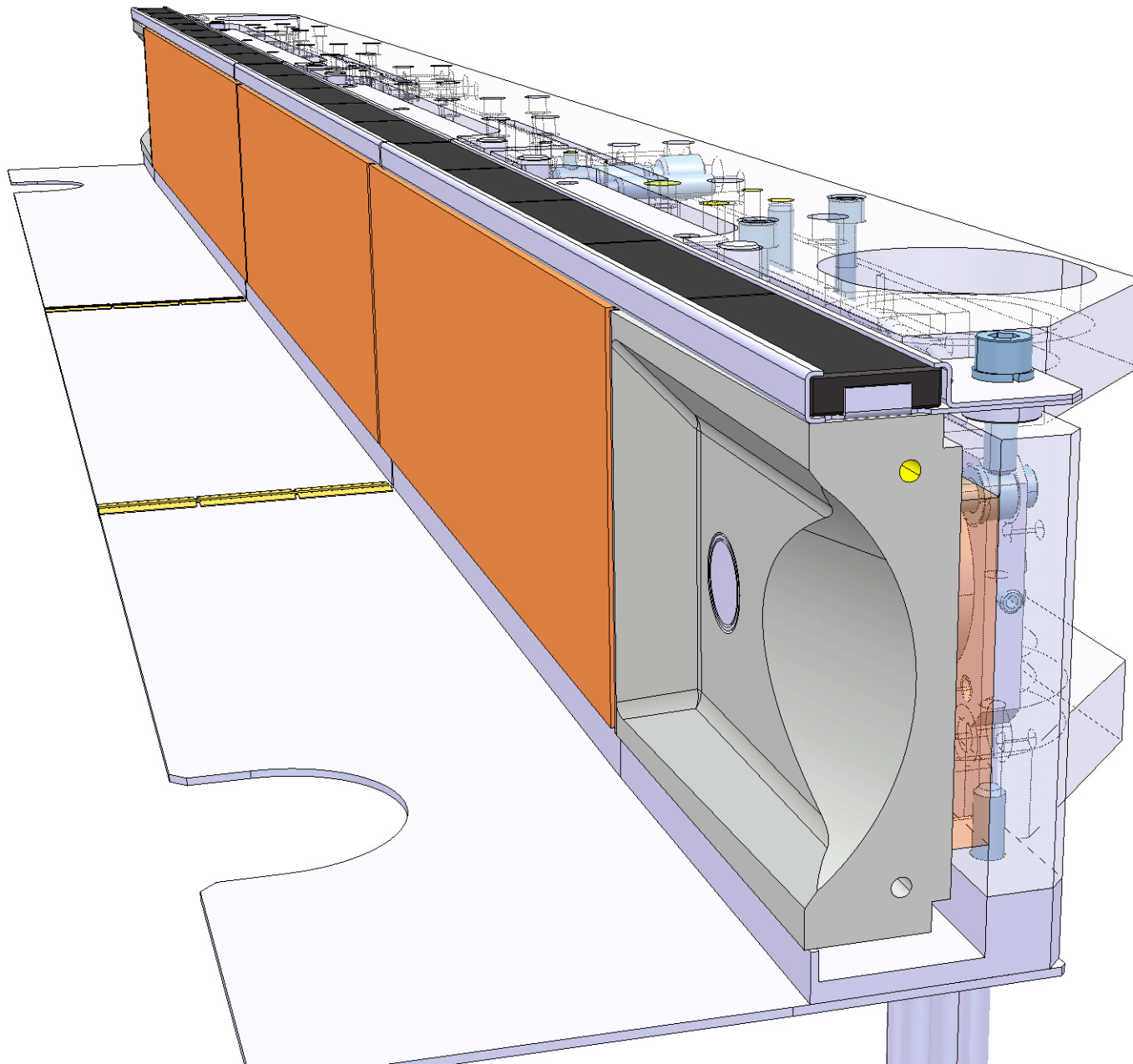
Ferrite

One should try and suppress these gaps if possible



Ferrite (6 mm height but only 3 mm visible by the beam due to the stainless steel box) => Try and increase the visible height of the ferrite

Pictures from the Phase 2 design (1/2)



Pictures from the Phase 2 design (2/2)

Distance between the ferrite and the beam screen is 2.3 mm

