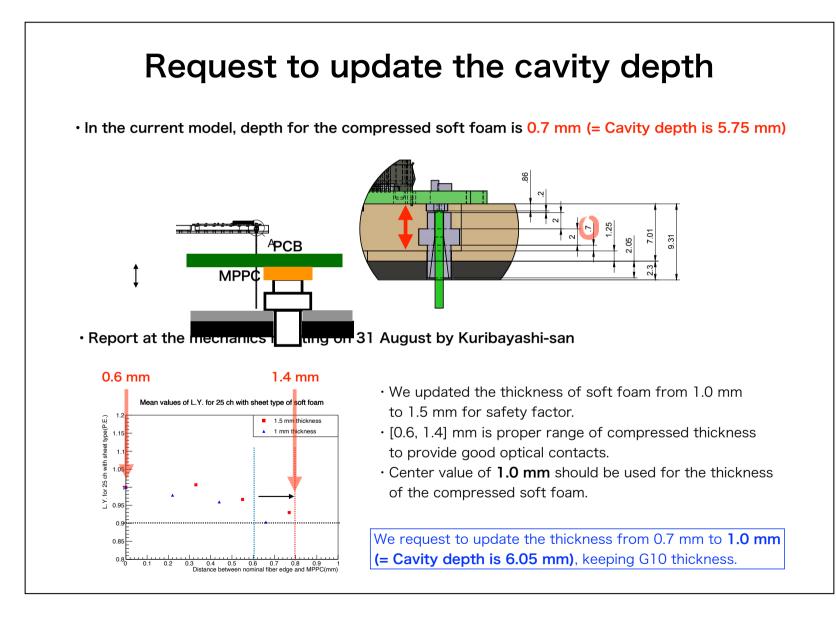
An update of the cavity depth for MPPC64-PCB

7 December 2020

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Request to update the cavity depth





Original : 0.86 + 4.2 + 0.7 = 5.76 mmPrevious request : 0.86 + 4.2 + 1.0 = 6.06 mm

Negative tolerance of the connector

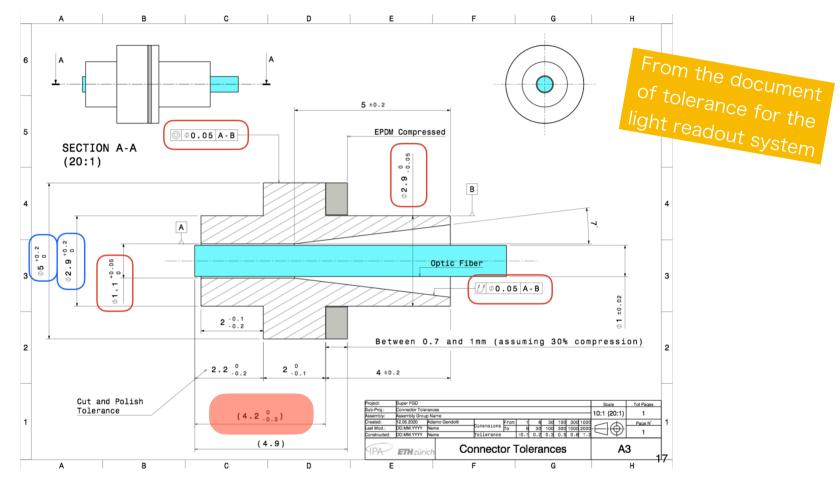
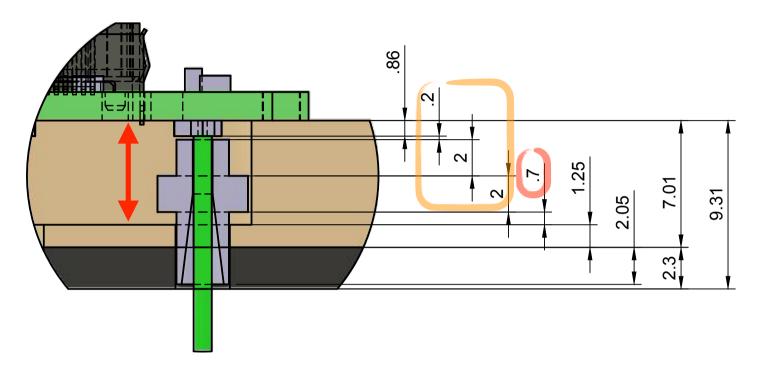


Figure 7: 2D drawing of the optical connector with tolerances on the horizontal plane highlighted in red (critical) and in blue (non-critical). The MPPC sits on the left side of the connector, while the right side cylindrical part is inserted into the readout interface hole.

The negative tolerance (4.2 +0 - 0.3 mm) was not considered... \rightarrow Mean value is 4.05 mm for both sided error (+/- 0.15 mm)

Revised request



Original : 0.86 + 4.2 + 0.7 = 5.76 mm

Previous request : 0.86 + 4.2 + 1.0 = 6.06 mm

Revised request : $0.86 + 4.2 + 0.85 = 5.91 \text{ mm} \leftarrow \text{this should be final number}$

(3.9, 4.2) mm

Three cases for example
0 mm (nominal) : 0.86 + 4.20 + 0.85 = 5.91 mm
-0.15 mm (mean) : 0.86 + 4.05 + 1.00 = 5.91 mm
-0.30 mm (min.) : 0.86 + 3.90 + 1.15 = 5.91 mm
0.6 mm <—(0.25)— 0.85 ~ 1.15 mm —(0.25)—> 1.4 mm