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Longitudinally-split side-coupled high-shunt-impedance C-band structure fabricated in two halves

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Side-coupled structures operated with $\pi/2$ mode have been widely used particularly for compact linacs. The structure has various advantages; however, there are some difficulties in fabrication due to many complicated parts to be bonded in the conventional fabrication method. On the other hand, longitudinally-split structures are easy to fabricate due to the small number of parts (two halves or four quadrants). In recent years, in collaboration with Mitsubishi Heavy Industries, we have been developing longitudinally-split side-coupled C-band structure fabricated in two halves with a high shunt impedance based on our successful experience on the quadrant-type X-band CLIC prototype structure development. We report the status and results of this project.

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