



X-band accelerator structure cell with damping manifolds, which also provide beam position information.



Element	Specification	Status
Quadrupole	1 µm Stability over 20% Strength Change	DONE
Quadrupole	1 µm Stability over 1 Week	DONE
Quadrupole BPM	0.4 μm Resolution	DONE
Mover	3 mm Range with 50 nm Step Size	DONE
Structure BPM	1 μm Resolution	DONE
RF Structure	6 µm Positioning Accuracy	< 10 µm
Laser Wire	Measure 0.8 µm Spot	< 1.1 µm

Hardware specifications required for emittance preservation in the main linac, and performance achieved in prototypes.



