

Home Made Button Type BPMs: demo antennas or real diagnostics tools?

The electromagnetic (EM) design of button type beam position monitor (BPM) devices for fourth-generation storage rings is only the first step, and in certain respects the simplest one, of the full path to get a manufacturable, reliable and “cheap” diagnostic tool. Once completed, such EM design has to be reviewed and modified together with the potential BPMs manufacturers in order to match all the technological aspects involved in the proprietary sealing materials and manufacturing processes. To further complicate things, prototypes manufacturing and ancillary validation tools development could require long term efforts and iterations between the involved players before finding the formal agreement for the BPMs series production. In this report are described some in house developed, manufactured and assembled BPMs aimed to “quick&dirty” rapid prototyping some samples of button type pick-ups in view of Elettra 2.0.

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