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Polarizer designed for the electron cyclotron resonance heating system on J-TEXT

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A polarization-controlled launcher has been designed for the 60 GHz electron cyclotron resonance heating system on J-TEXT. The polarizer is an essential component of the polarization-controlled launcher which is used to change the polarization of the electron cyclotron wave. The coordinate transformation method is applied for design of the polarizer with sinusoidal grooves. The polarizer was tested with the lower power test platform. The results agree well with the numerical results of the coordinate transformation method, indicating that the designed polarizer can meet the requirements of the electron cyclotron resonance heating system of the J-TEXT.

Keywords: J-TEXT, ECRH, polarizer, C-method.

Eligible for student paper award?

No

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